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## 期刊論文 (Journal Paper)

1. Epackachi, S., Whittaker, A. S. Huang, Y.-N. (2015, Feb). Analytical modeling of rectangular SC wall panels. *Journal of Constructional Steel Research*, 105, 49(EI)
2. Yin-Nan Huang Andrew Whittaker (2014, Jan). On the calculation of peak ground velocity for seismic performance assessment. *Earthquake Spectra*. (Accepted). 本人為第一作者、通訊作者. (SCI)
3. Liu, P., Chen, A. Y., Huang, Y.-N., Han, J.-Y., Lai, J.-S., Kang, S.-C., Wu, T.-H., Wen, M.-C., and Tsai, M.-H. (2014). A Review of Rotorcraft Unmanned Aerial Vehicle (UAV) Developments and Applications in Civil Engineering.. *Smart Structures and Systems*, 13(6), 1065-1094. (SCI)
4. Yin-Nan Huang; Andrew S. Whittaker (2013, Dec). Vulnerability assessment of conventional and base-isolated nuclear power plants to blast loadings. *International Journal of Protective Structures*, 4(4), 545-563. 本人為第一作者、通訊作者. (EI)
5. Huang, Y.-N., Whittaker, A. S., Kennedy, R. P., and Mayes, R. L. (2013, Mar). Response of base-isolated nuclear structures for design and beyond-design basis earthquake shaking. *Earthquake Engineering and Structural Dynamics*, 42(3), 339-356.. (SCI). 本人為第一作者、通訊作者.
6. Huang, Yin-Nan\*, Whittaker, A. S., Luco, N. (2011, Sep). A probabilistic seismic risk assessment procedure for nuclear power plants: (II) Application. *Nuclear Engineering and Design*, 241(9), 3985-3995. (SCI).
7. Huang, Yin-Nan\*, Whittaker, A. S., Luco, N. (2011, Sep). A probabilistic seismic risk assessment procedure for nuclear power plants: (I) Methodology. *Nuclear Engineering and Design*, 241(9), 3996-4003. (SCI).
8. Huang, Yin-Nan\*, Whittaker, A. S., Luco, N., and Hamburger, R. O. (2011, Mar). Scaling earthquake ground motions for performance-based assessment of buildings. *Journal of Structural Engineering/ASCE*, 137(3), 311-321. (SCI).
9. Huang, Yin-Nan\*., Whittaker, A. S., and Luco, N. (2010, Oct). Seismic performance assessment of base-isolated safety-related nuclear structures. *Earthquake Engineering and Structural Dynamics*, 39(13), 1421-1442. (SCI).
10. Hwang, J.-S.\*, Hung, C.-F., Huang, Yin-Nan, and Wang, S.-J. (2010, Jun). Design force transmitted by isolation system composed of lead-rubber bearings and viscous dampers. *International Journal of Structural Stability and Dynamics*, 10(2), 287-298. (SCI).
11. Huang, Yin-Nan\*, Whittaker, A. S., and Luco, N. (2010, May). NEHRP site amplification factors and the NGA relationships. *Earthquake Spectra*, 26(2), 583-593. (SCI).
12. Huang, Yin-Nan\*, Whittaker, A. S., and Luco, N. (2009, Aug). Orientation of maximum spectral demand in the near-fault region. *Earthquake Spectra*, 25(3),

707-717. (SCI).

13. 黃尹男 (2011 年)。美國新一代房屋結構耐震性能評估法 (一)。結構工程，中華民國結構工程學會，第二十六卷，第四期，第 59-74 頁。

### 研討會論文

1. Chang, C.-C., Yu, C.-C., Shen, Y.-H., and Huang, Y.-N. (2014). An efficient procedure for seismic probabilistic risk assessment using response-based fragility curves.. The 5th Asia Conference on Earthquake Engineering (ACEE).
2. Chao, P.-C., and Huang, Y.-N. (2014). An assessment for the design of high-damping rubber bearings using bilinear and effective linear models.. The 16th Japan-Taiwan-Korea Joint Seminar on Earthquake Engineering for Building Structures (SEEBUS).
3. Huang, Y.-N., Chen, A., You, J.-Y., and Capart, H. (2014). From structures to automation in freshman civil engineering projects.. The Third Workshop on Design in Civil and Environmental Engineering (DCEE).
4. Huang, Y.-N., and Shen, Y.-H. (2014). Using response-based fragility curves in seismic probabilistic risk assessment of nuclear power plants.. The 3rd International Symposium on Reliability Engineering & Risk Management (ISRERM).
5. Lai, Z.-Y., Liu, Y.-F., Yu, C.-C., Chai, J.-F., Lin, F.-R., Wu, W.-F., Huang, Y.-N., and Shen, M.-Y. (2014). (2014). Cyclic loading test and numerical analysis of flanged joint and reducer of RHR piping systems.. ASME 2014 Pressure Vessels and Piping Conference, American Society of Mechanical Engineers (ASME), Pressure Vessels and Piping Division.
6. Shen, M.-Y., Lai, Z.-Y., Chai, J.-F., Lin, F.-R., Huang, Y.-N., and Yu, C.-C. (2014). Numerical analysis of a RHR piping system subjected to seismic loading.. ASME 2014 Pressure Vessels and Piping Conference, American Society of Mechanical Engineers (ASME), Pressure Vessels and Piping Division.
7. Shen, Y.-H., Huang, Y.-N., and Yu, C.-C. (2014). Seismic probabilistic risk assessment of nuclear power plants using response-based fragility curves.. ASME 2014 Pressure Vessels and Piping Conference, American Society of Mechanical Engineers (ASME), Pressure Vessels and Piping Division.
8. Chang, C.-C., Chou, C.-C., Shen, Y.-H., and Huang, Y.-N. (2013). Development of response-based fragility curves for seismic probabilistic risk assessment of nuclear power plants.. 22nd International Conference on Structural Mechanics in Reactor Technology, San Francisco, California, USA..
9. Huang, Y.-N. and Shen, Y.-H. (2013). A sample calculation on seismic risk of nuclear power plants.. 2nd International Conference on Sustainable Infrastructure and Built Environment, Bandung, Indonesia.
10. Huang, Y.-N., Shen, Y.-H., Chang, C.C., and Yu, C.C. (2013). Response-based probabilistic risk assessment of nuclear power plants.. The 15th Korea-Japan-Taiwan Joint Seminar on Earthquake Engineering for Building Structures (SEEBUS), Taipei, Taiwan.. 本人為第一作者。
11. Lin, F.-R., Chen, M.-Y., Chai, J.-F., Huang, Y.-N., Lai, Z.-Y., and Liao, W.-I. (2013). Seismic demands for incabinet equipment in Motor Control Centers in Taiwan Lungmen Nuclear Power Plant.. 22nd International Conference on Structural Mechanics in Reactor Technology, San Francisco, California, USA..

12. Shen, Y.-H., Chang, C.-C., and Huang, Y.-N. (2013). Seismic probabilistic risk assessment of nuclear power plants using response-based fragility curves.. 22nd International Conference on Structural Mechanics in Reactor Technology, San Francisco, California, USA..
13. Whittaker, A. S., Salmon, M., and Huang, Y.-N. (2013). ASCE 4 Provisions for seismic isolation of safety-related nuclear structures.. 22nd International Conference on Structural Mechanics in Reactor Technology, San Francisco, California, USA..
14. Huang, Y.-N. (2012, --). Response of base-isolated nuclear structures subjected to design and beyond-design basis earthquake shaking: The update of ASCE 4.. Proceedings, The 11th National Conference on Structural Engineering and The First National Conference on Earthquake Engineering, Taichung, Taiwan..
15. Huang, Y.-N. (2012, --). Seismic design of base-isolation systems for nuclear power plants.. Proceedings, 第二屆海峽兩岸地震工程青年學者研討會, Harbin, China..
16. Huang, Y.-N., Ha, D. V., and Samanta, A. (2012, --). Scaling ground motions for response-history analysis of tall buildings.. Proceedings, Paper No. 4577, 15th World Conference on Earthquake Engineering, Lisbon, Portugal.
17. Huang, Y.-N. (2011, --). Correlation of near-fault ground motions for Western United States.. Proceedings, ASME 2012 Pressure Vessels and Piping Division Conference, Toronto, Ontario, Canada..
18. Huang, Y.-N. (2011, --). Scaling earthquake records for seismic performance assessment of buildings.. Proceedings, 5th Cross-strait Conference on Structural and Geotechnical Engineering (SGE-5), Hong Kong, China.
19. Huang, Y.-N. (2011, --). Response of base-isolated nuclear structures for design and beyond-design basis earthquake shaking.. Proceedings: Advance in Structural Engineering, 3rd Asia-Pacific Young Researchers and Graduates Symposium, National Center for Research on Earthquake Engineering, Taipei, Taiwan..
20. Huang, Y.-N., Whittaker, A. S., Kennedy, R. P., and Mayes, R. L. (2011, --). Analysis and design of seismic isolation systems for nuclear structure.. Proceedings, 21st International Conference on Structural Mechanics in Reactor Technology, New Delhi, India..
21. Huang, Y.-N., and Whittaker, A. S. (2011, --). Sensitivity studies for seismic performance assessment of safety-related nuclear structures.. Proceedings, Pre SMiRT 21 Conference Seminar, Mumbai, India.
22. Huang, Y.-N., Whittaker, A. S., Kennedy, R. P., and Mayes, R. L. (2010, --). An assessment of site amplification factors for the Western United States.. Proceedings, 9th US National and 10th Canadian Conference on Earthquake Engineering, Toronto, Canada.
23. Huang, Y.-N., Whittaker, A. S., Kennedy, R. P., and Mayes, R. L. (2010, --). Response of base-isolated nuclear structures for design and beyond-design basis earthquake shaking.. Proceedings, ASME 2010 Pressure Vessels and Piping Division Conference, Bellevue, Washington.
24. Samanta, A., and Huang, Y.-N. (2010, --). Scaling ground motions for seismic performance assessment of high-rise buildings.. Proceedings, 3rd Asia Conference on Earthquake Engineering, Bangkok, Thailand.
25. Huang, Y.-N., Whittaker, A. S., and Luco, N. (2009, --). Seismic performance assessment for safety-related nuclear structures.. Proceedings, 20th International Conference on Structural Mechanics in Reactor Technology, Espoo (Helsinki), Finland.

26. Huang, Y.-N., and Whittaker, A. S. (2009, --). Response of conventional and base-isolated nuclear power plants to blast loading.. Proceedings, 20th International Conference on Structural Mechanics in Reactor Technology, Espoo (Helsinki), Finland.
27. 游青青、黃尹男 ( 2014年)。以結構反應為易損性曲線參數之核能電廠地震機率式風險評估。第三屆海峽兩岸地震工程青年學者研討會。
28. 黃尹男，詹鉅洋 (2012年--月)。美國 ATC-58房屋結構耐震性能評估法。中華民國第十一屆結構工程研討會暨第一屆地震工程研討會，臺中市,台灣。

## 技術報告

1. Huang, Yin-Nan\*, Whittaker, A. S., Kennedy, R. P., and Mayes, R. L. (2009, Aug). Assessment of base-isolated nuclear structures for design and beyond-design basis earthquake shaking.