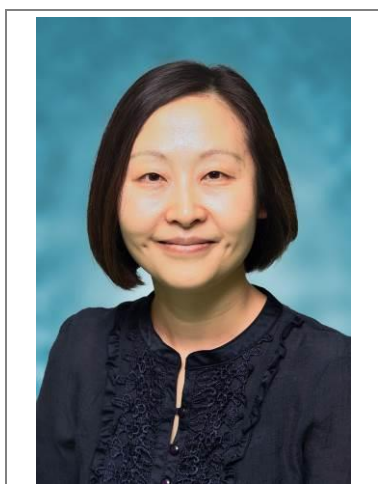


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學術成果

1. **Sheng N**, Tang UW, Grydehoj A. Urban morphology and urban fragmentation in Macau, China: island city development in the Pearl River Delta megacity region. *Island Studies Journal*, 2017, 12: 199-212. [SSCI]
2. **Sheng N**, Zhou X, Zhou Y. Environmental impact of electric motorcycles: Evidence from traffic noise assessment by a building-based data mining technique. *Science of the Total Environment*, 2016, 554: 73-82. [SCI]
3. **Sheng N**, Tang UW. The first official city ranking by air quality in China - A review and analysis. *Cities*, 2016, 51: 139-149. [SSCI]
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11. Tang UW, **Sheng N**. Macao. *Cities*, 2009, 24: 220-231. [SSCI]
12. Li SF, **Sheng N**. On multiscale non-equilibrium molecular dynamics simulations. *International Journal for Numerical Methods in Engineering*, 2010, 83(8-9): 998-1038. [SCI]
13. Wu D, Lo SH, **Sheng N**, Sze KY. Universal three-dimensional connection hexahedral elements based on hybrid-stress theory for solid structures. *International Journal for Numerical Methods in Engineering*, 2010, 81(3): 307-334. [SCI]

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15. Li SF, **Sheng N**, Liu XH. A non-equilibrium multiscale simulation paradigm. *Chemical Physics Letters*, 2008, 451: 293-300. [SCI]
16. Liu XH, Li SF, **Sheng N**. A cohesive finite element for quasi-continua. *Computational Mechanics*, 2007, 42: 543-553. [SCI]
17. **Sheng N**, Sze KY, Cheung YK. Trefftz solutions for piezoelectricity by Lekhnitskii's formalism and boundary-collocation method. *International Journal for Numerical Methods in Engineering*, 2006, 65: 2113-2138. [SCI]
18. **Sheng N**, Sze KY. Multi-region Trefftz boundary element method for fracture analysis in plane piezoelectricity. *Computational Mechanics*, 2006, 37: 381-393. [SCI]
19. Sze KY, **Sheng N**. Polygonal finite element method for nonlinear constitutive modeling of polycrystalline ferroelectrics. *Finite Elements in Analysis & Design*, 2005, 42: 107-129. [SCI]
20. Jin WG, **Sheng N**, Sze KY, Li J. Trefftz indirect methods for plane piezoelectricity. *International Journal for Numerical Methods in Engineering*, 2005, 63: 139-158. [SCI]
21. Sze KY, Chen JS, **Sheng N**, Liu XH. Stabilized conforming nodal integration: exactness and variational justification. *Finite Elements in Analysis & Design*, 2004, 41: 147-171. [SCI]
22. Fan SC, **Sheng N**. Meshless formulation using NURBS basis functions for eigenfrequency changes of beam having multiple open-cracks. *Journal of Sound and Vibration*, 2004, 269: 781-793. [SCI]
23. Hua W, **Sheng N**, Liu B. ABS designs for load/unload and shock resistance. *IEICE Transactions on Electronics*, 2002, E85-C, No. 10: 1789-1794. [SCI]
24. **Sheng N**, Yam CH, Lu VP. Analytical investigation and the design of the compressive strength of steel gusset plate connections. *Journal of Constructional Steel Research*, 2002, 58: 1473-1493. [SCI]

研究項目

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|-------------|---------------------------------------|
| 2013 - 2015 | 建立高精度的澳門半島交通噪音圖 (澳門科學技術發展基金資助, 項目負責人) |
| 2014 - 2015 | 構建澳門道路交通噪音模型 (澳門科學大學研究基金資助, 項目負責人) |
| 2012 - 2013 | 澳門城市環境品質對住宅價格的影響 (澳門基金會資助, 項目負責人) |
| 2012 - 2013 | 高樓街區居民現狀調查研究 (澳門特區政府土地工務運輸局委託項目) |
| 2010 - 2011 | 媽閣街區居民現狀調查研究 (澳門特區政府土地工務運輸局委託項目) |
| 2010 - 2011 | 澳門公眾環境意識調查 (澳門特區政府環境保護局委託項目) |
| 2009 - 2010 | 下環街區居民現狀調查研究 (澳門特區政府土地工務運輸局委託項目) |
| 2009 - 2010 | 澳門首二期輕軌環境經濟效益評估 (澳門特區政府運輸基建辦公室委託項目) |