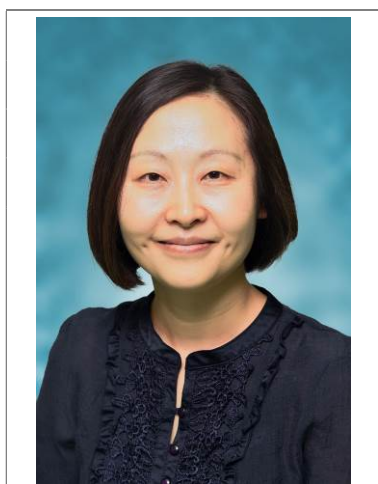


盛 妮



職稱： 教授/院長
學院/部門： 商學院
電郵地址： nis@must.edu.mo
電話： (853) 8897-2870

研究領域：環境管理與政策，低碳循環經濟

教學領域：統計、決策方法、營運管理

教育背景

2006 - 2007 美國加州大學柏克利分校 / 博士後
2002 - 2005 香港大學 / 博士
1998 - 2000 新加坡南洋理工大學 / 碩士
1991 - 1995 浙江大學 / 土木工程, 輔修計算機應用 / 學士

工作經驗

2013 - 現在 澳門科技大學 / 商學院 / 助理院長, 副院長, 執行副院長, 院長
2007 - 現在 澳門科技大學 / 助理教授, 副教授, 教授
2005 - 2006 香港大學 / 研究助理
2000 - 2002 新加坡國立大學, 數據存儲研究所 / 研發工程師

近期獲獎

2022 第六屆澳門人文社會科學研究優秀成果獎 - 論文類三等獎 (澳門基金會)
2019 第五屆澳門人文社會科學研究優秀成果獎 - 論文類優異獎 (澳門基金會)
2016 2016 年度澳門科學技術獎勵 - 科技進步獎三等獎 (唯一完成人) (澳門特別行政區)
2014 中銀學術研究優秀獎 (澳門科技大學)

主要學術成果

1. Chen C, Wen ZG, **Sheng N**, Song QB. Uneven agricultural contraction within fast-urbanizing urban agglomeration decreases the nitrogen use efficiency of crop production. *Nature Food*, 2024, 5: 390-401. (SCIE, 2023 IF 23.6, ranking 1/173=0.6%, Q1)

2. Wang HX, **Sheng N**, Song QB, Xu LJ, Bai J. Exploring the potential carbon emissions and net-zero path of international flights: A case study in Macao. *Journal of Environmental Sciences*, 2025, 156: 288-299. (SCIE, Q1)
3. Zheng XY, Lan YK, Wei XY, **Sheng N**, Shao XF. Green Credit Guidelines and Financial Resilience: Implications for green innovation in heavily polluting enterprises. *Journal of Environmental Management*, 2025, 378, 124573. (SCIE, Q1)
4. Ke JC, Zhao SJ, Guo YZ, Song QB, **Sheng N**, Li JH. Cross-city insights on sustainable consumption: consistency and disparities in willingness to buy and pay for green air conditioners. *Frontiers of Environmental Science & Engineering*, 2025, 19, 53. (SCIE, Q1)
5. Guo YZ, **Sheng N**, Ke JC, Song QB, Li JH. Promoting the sustainable development of the low-carbon tourism industry from the perspective of tourists' carbon capability. *Environment Development and Sustainability*, 2025 Jun. (SCIE, Q2)
6. Lin Y, Lv HY, Ke JC, Song QB, **Sheng N**, Chen C, Wen ZG. Dynamic nitrogen metabolism in urban environments: Cross-sectoral and cross-media insights for sustainable management. *Resources Environment and Sustainability*, 2025, 19, 100193. (ESCI, Q1)
7. Zhao SJ, Chan KL, **Sheng N**, Song QB, Li JH. Identifying key factors of sustainable consumption: a case on coffee consumers' WTA and WTP for oat-cups instead of one-time use cups. *Environment Development and Sustainability*, 2024 Nov. (SCIE, Q2)
8. Cai KH, Guo YL, **Sheng N**, Wang L, He X, Song QB, Chen C, Wen ZG. What influences different stakeholders' willingness to accept and pay for reusable tableware? Evidence from a CVM survey of Guangdong-Hong Kong-Macao GBA. *Environmental Impact Assessment Review*, 2025, 110, 107671. (SSCI, Q1)
9. Ke JC, **Sheng N**, Song QB, Yuan WY, Li JH. Empirical evidence on the characteristics and influencing factors of carbon emissions from household appliances operation in the Pearl River Delta region, China. *Applied Energy*, 2024, 376, 124191. (SCIE, Q1)
10. Shao CW, Bhar R, Colwell DB, **Sheng N**, Wei XY. Variance dynamics and term structure of the natural gas market. *Energy Economics*, 2024, 137, 107780. (SSCI, Q1)
11. Zhao SJ, Chan KM, **Sheng N**, Song QB, Li JH. Reducing carbon footprint of typical coffee consumption from the whole lifecycle viewpoint. *Environmental Impact Assessment Review*, 2024, 106, 107476. (SSCI, Q1)
12. Xu LJ, Zhang JL, **Sheng N**, Long YQ, Yuan WY, Wang C, Song QB. How to motivate residents' intentions and behaviors to purchase photovoltaic power? A discrepancy study in Guangdong-Hong Kong-Macao GBA. *Energy Reports*, 2024, 11: 1088-1099. (SCIE, Q2)

13. Wan YY, **Sheng N**, Wei XY, Su HY. Study on the spatial spillover effect and path mechanism of green finance development on China's energy structure transformation. *Journal of Cleaner Production*, 2023, 415: 137820. (SCIE, Q1)
14. Dai BL, **Sheng N**, Huang J, Mu FH, Chen X, Li T, Xu JM, He YL. Inland waterway traffic noise prediction model: a comparison. *International Journal of Environmental Science and Technology*, 2023, published online. (SCIE, Q3)
15. Zhang ZK, **Sheng N**, Zhao DQ, Cai KH, Yang GM, Song QB. Are residents more willing to buy and pay for electric vehicles under the "carbon neutrality"? *Energy Reports*, 2023, 9: 510-521. (SCIE, Q2)
16. Wan YY, **Sheng N**. Clarifying the relationship among green investment, clean energy consumption, carbon emissions, and economic growth: a provincial panel analysis of China. *Environmental Science and Pollution Research*, 2022, 29(6): 9038-9052. (SCIE, Q1)
17. Hsiao YL, **Sheng N**, Fu SZ, Wei XY. Evaluation of contagious effects of China's wind power industrial policies. *Energy*, 2022, 238: 121760. (SCIE, Q1)
18. Cai KH, Xie YF, Song QB, **Sheng N**, Wen ZG. Identifying the status and differences between urban and rural residents' behaviors and attitudes toward express packaging waste management in Guangdong Province, China. *Science of the Total Environment*, 2021, 797: 148996. (SCIE, Q1)
19. Hsiao YL, Wei XY, **Sheng N**, Shao CW. A joint test of policy contagion with application to the solar sector. *Renewable & Sustainable Energy Reviews*, 2021, 141:110762. (SCIE, Q1)
20. Chen C, Yao Z, Wen ZG, **Sheng N**. Impact of city characteristics on its phosphorus metabolism in the bay area: A comparative analysis of cities in the Greater Bay Area of China. *Journal of Cleaner Production*, 2021, 286:124925. (SCIE, Q1)
21. Hsiao YL, Ai D, Wei XY, **Sheng N**. The contagious effect of China's energy policy on stock markets: The case of the solar photovoltaic industry. *Renewable Energy*, 2021, 164:74-86. (SCIE, Q1)
22. Hsiao YL, Ou YL, **Sheng N**, Wei XY. Measuring contagion effects of nuclear energy policies and events. *International Journal of Energy Research*, 2021, 45:11510-11525. (SCIE, Q1)
23. Chen H, Li XY, Lu XR, **Sheng N**, Zhou W, Geng HP, Yu SW. A multi-objective optimization approach for the selection of overseas oil projects. *Computers & Industrial Engineering*, 2021, 151:106977. (SCIE, Q1)
24. Dai BL, **Sheng N**, Zhao W, Mu FH, He LY. Evaluation of urban inland waterway traffic noise using a modified Nord 2000 prediction model. *Environmental Research*, 2020, 185: 109437. (SCIE, Q1)
25. Dai BL, **Sheng N**, He YL, Mu FH, Xu JM, Zhu AF. Development of an inland waterway traffic noise prediction model considering water surface adsorption and embankment

- shielding influences. *International Journal of Environmental Science and Technology*, 2019, 16: 5927-5936. (SCIE, Q3)
26. Zhu LC, Song QB, **Sheng N**, Zhou X. Exploring the determinants of consumers' WTB and WTP for electric motorcycles using CVM method in Macau. *Energy Policy*, 2019, 127: 64-72. (SSCI/SCIE, Q1)
 27. **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, Q3)
 28. **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. (SCIE, Q1)
 29. **Sheng N**, Tang UW. The first official city ranking by air quality in China - A review and analysis. *Cities*, 2016, 51: 139-149. (SSCI, Q1)
 30. Dai BL, **Sheng N**, He YL, Xu JM, Zhu AF. An inland waterway traffic noise prediction model for environmental assessment in China. *International Journal of Environmental Science and Technology*, 2016, 13: 1235-1244. (SCIE, Q3)
 31. Choy KL, **Sheng N**, Lam HY, Lai IKW, Chow KH, Ho GTS. Assess the effects of different operations policies on warehousing reliability. *International Journal of Production Research*, 2014, 52: 662-678. (SCIE, Q1)
 32. **Sheng N**, Tang UW. Zhuhai. *Cities*, 2013, 32: 70-79. (SSCI, Q1)
 33. **Sheng N**, Tang UW. Risk assessment of traffic-related air pollution in a world heritage city. *International Journal of Environmental Science and Technology*, 2013, 10: 11-18. (SCIE, Q3)
 34. **Sheng N**, Tang UW. A building-based data capture and data mining technique for air quality assessment. *Frontiers of Environmental Science & Engineering*, 2011, 5: 543-551. (SCIE, Q4)
 35. Tang UW, **Sheng N**. Macao. *Cities*, 2009, 24: 220-231. (SSCI, Q1)
 36. **Sheng N**, Li SF. A multi-scale non-equilibrium molecular dynamics algorithm and its applications. *International Journal of Applied Mechanics*, 2009, 1: 405-420. (SCIE)
 37. Li SF, **Sheng N**. On multiscale non-equilibrium molecular dynamics simulations. *International Journal for Numerical Methods in Engineering*, 2010, 83(8-9): 998-1038. (SCIE)
 38. 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. (SCIE)
 39. **Sheng N**, Li SF. A non-equilibrium multiscale simulation of shock wave propagation. *Mechanics Research Communications*, 2008, 35: 10-16. (SCIE)

40. Li SF, **Sheng N**, Liu XH. A non-equilibrium multiscale simulation paradigm. *Chemical Physics Letters*, 2008, 451: 293-300. (SCIE)
41. Liu XH, Li SF, **Sheng N**. A cohesive finite element for quasi-continua. *Computational Mechanics*, 2007, 42: 543-553. (SCIE)
42. **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. (SCIE)
43. **Sheng N**, Sze KY. Multi-region Trefftz boundary element method for fracture analysis in plane piezoelectricity. *Computational Mechanics*, 2006, 37: 381-393. (SCIE)
44. Sze KY, **Sheng N**. Polygonal finite element method for nonlinear constitutive modeling of polycrystalline ferroelectrics. *Finite Elements in Analysis & Design*, 2005, 42: 107-129. (SCIE)
45. 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. (SCIE)

研究項目

- | | |
|-------------|--|
| 2023 - 2026 | 粵港澳大灣區多源固廢代謝機制及減污降碳路徑優化研究 (澳門科學技術發展基金與國家自然科學基金聯合資助, 項目負責人) |
| 2017 - 2018 | 澳門土地填海及城市碎片化研究 (澳門科學大學研究基金資助, 項目負責人) |
| 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) |