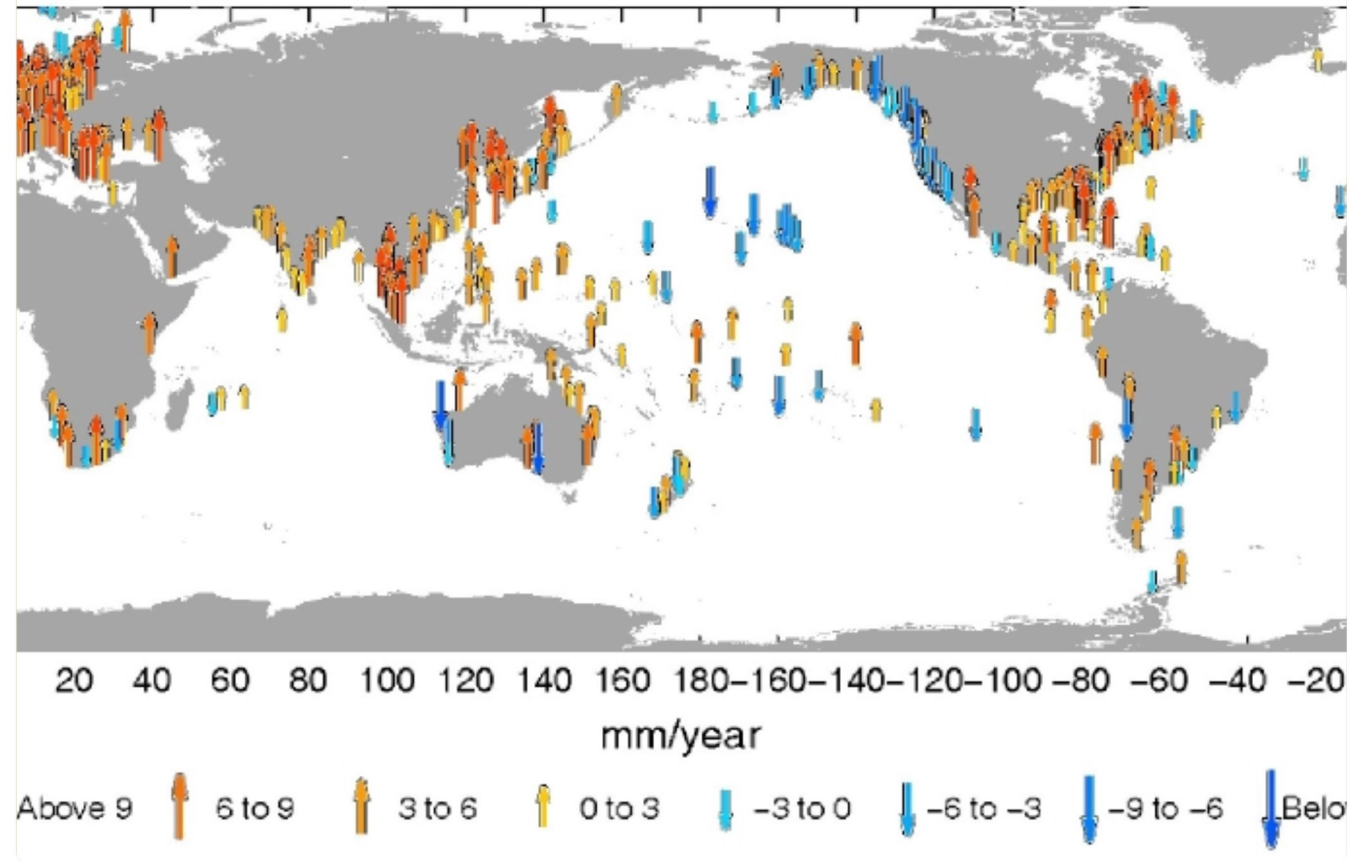




黃如瑤

Global trends of sea surface gravity wave, wind and coastal wave set-up

- 本圖顯示自 1993 年以來，全球海平面波浪高度的變化速率（單位：公釐/每年），由於氣候變化，亞洲沿海、歐洲及美國東部皆出現顯著的浪高上升（以向上箭頭表示）。
- This figure shows the rates of change of sea-surface wave height in millimeters per year since 1993 around the globe, due to climate change, showing in particular rising (up arrows) waves along the coasts of Asia, Europe and eastern USA.



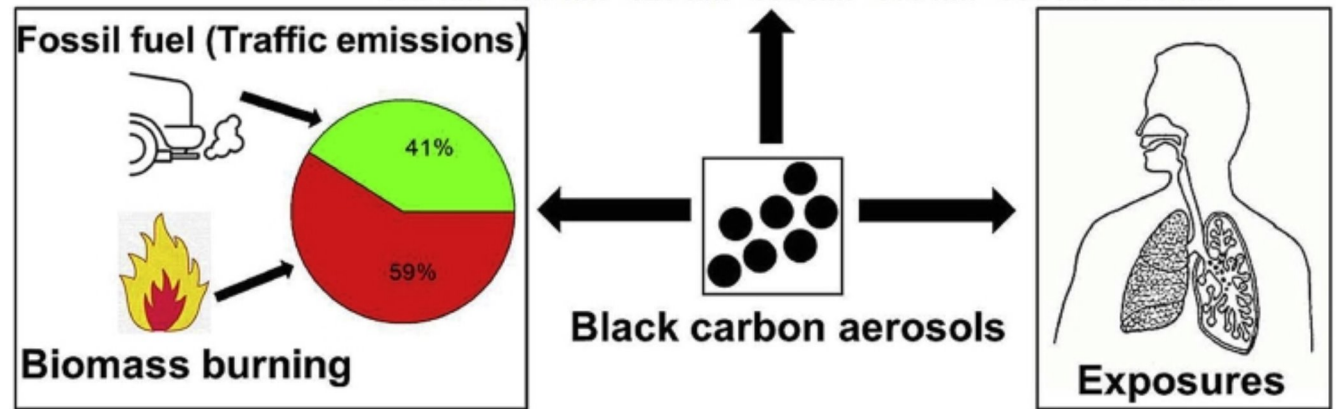
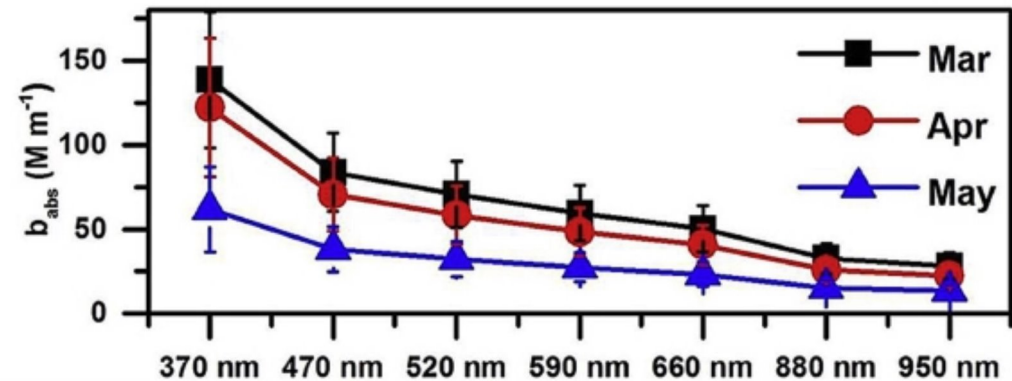
彭 祥



Black carbon over an urban atmosphere in northern peninsular Southeast Asia: Characteristics, source apportionment, and associated health risks

- 北東南亞都市上空之大氣黑碳的特性及健康風險

- The characteristics and health risks of atmospheric black carbon are investigated over an urban location in northern peninsular Southeast Asia.



許桂榮

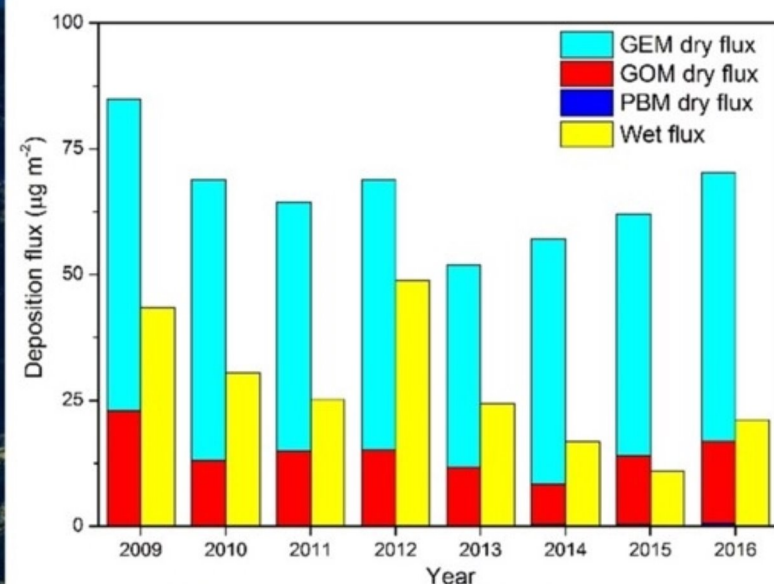
Eight-year dry deposition of atmospheric mercury to a tropical high mountain background site downwind of the East Asian continent

大氣系許桂榮副教授團隊與加拿大環境與氣候變遷部研究人員Dr. Leiming Zhang合作，估算2009至2016年鹿林山大氣汞乾沈降，並彙整汞濕沈降監測數據，探討東亞大陸源區下風處高山地區的大氣汞總沈降、乾濕沈降相對重要性及影響機制。



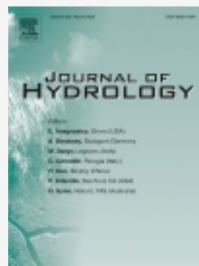
This is the first study of multi-year dry deposition estimation of speciated atmospheric mercury (Hg) to a tropical mountain site downwind of the East Asia. Hg deposition to this forest landscape was governed by dry rather than wet deposition. Both dry and wet Hg depositions at this tropical mountain site were higher than those reported from sites in temperate regions.

Lulin Atmospheric Background Station



陳瑞昇

Semi-analytical model for coupled multispecies advective-dispersive transport subject to rate-limited sorption



- 發展滿足飲用、灌溉與養殖用水質標準與低洩降指標的蘭陽平原多標地下水使用的分區管理計畫。
- Zonal management plan based on the safe groundwater quality zones for different groundwater utilization purposes and a low drawdown index.

