

能源與冷凍空調工程系
Department of Energy and
Refrigerating Air-
Conditioning Engineering

能源量測與分析
Energy Measurement and
Analysis

前瞻能源科技實驗室
Lab. of Advanced Energy Technology



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■ 研究領域

能源科技、機械熱流、
冷凍空調、燃料電池、
地熱發電、馬達散熱、
薄膜增濕及除濕技術

■ 近期研究主題

- 建材儲能熱傳特定
- 相變材料熱傳增益
- 微型散熱座優化設計
- 燃料電池老化量測
- 薄膜增濕及除濕性能

■ Research Area

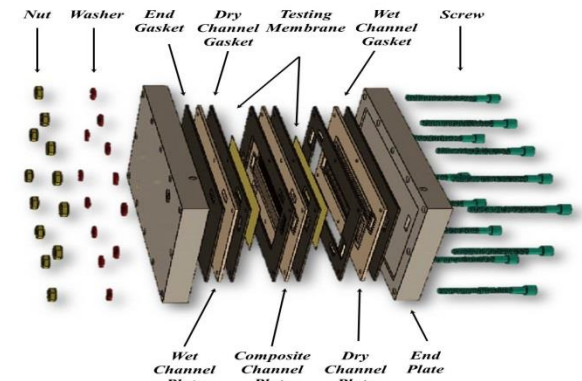
Energy technology, Mechanical
Thermal-Fluid, Air-Conditioning
and Refrigeration, Fuel cell,
Geothermal power, Motor
cooling, Membrane
humidification and
dehumidification technology

■ Recent Topics

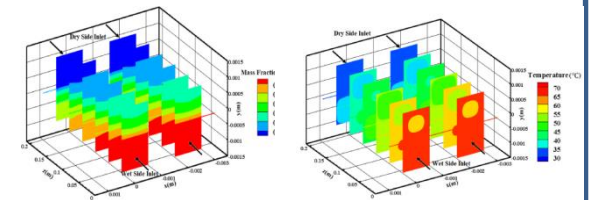
- Thermal storage of construction materials
- Heat transfer enhancement via MEPCM and nanofluids
- Optimal design of micro heat sinks
- Degradation measurement of PEM fuel cells
- Membrane humidification and dehumidification performance

■ Research

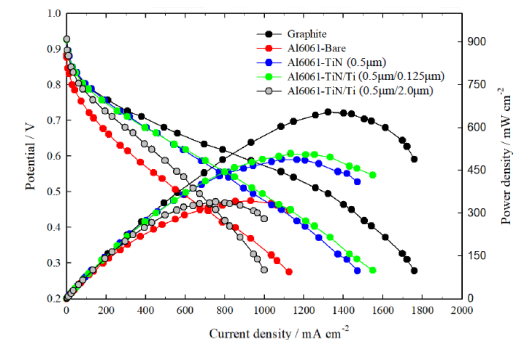
- H-index: 63
- Citations: 10,000



多級式平板式薄膜除濕器之熱質傳實驗研究
Experimental study on heat and mass transfer of a
multi-stage planar dehumidifier



平板式薄膜增濕器之熱質傳數值研究
Numerical study on heat and mass transfer
performance of the planar membrane-based
humidifier



燃料電池老化性能量測
Degradation measurement of
PEM fuel cells