Dr. Yang Wang

Publications

- 1. Yang Wang, J. Wang, and W. He. Development of efficient, flexible and affordable heat pumps for supporting heat and power decarbonisation in the uk and beyond: Review and perspectives. *Renewable and Sustainable Energy Reviews*, 154:111747, 2022
- 2. Yang Wang and W. He. Temporospatial techno-economic analysis of heat pumps for decarbonising heating in great britain. *Energy and Buildings*, 250:111198, 2021
- 3. Yang Wang, W. He, and J.-D. Müller. Sensitivity analysis and gradient-based optimisation of feed spacer shape in reverse osmosis membrane processes using discrete adjoint approach. *Desalination*, 449:26 40, 2019
- 4. J.-D. Müller, X. Zhang, S. Akbarzadeh, and **Yang Wang**. Geometric continuity constraints of automatically derived parametrisations in cad-based shape optimisation. *International Journal of Computational Fluid Dynamics*, 33(6-7):272–288, 2019
- 5. W. He, J. Wang, Yang Wang, Y. Ding, H. Chen, Y. Wu, and S. Garvey. Study of cycle-to-cycle dynamic characteristics of adiabatic compressed air energy storage using packed bed thermal energy storage. *Energy*, 141:2120 2134, 2017
- 6. Yang Wang, W. He, and H. Zhu. Computational fluid dynamics (CFD) based modelling of osmotic energy generation using pressure retarded osmosis (PRO). *Desalination*, 389:98 107, 2016. Pressure Retarded Osmosis
- X. Zhang, Yang Wang, M. Gugala, and J.-D. Müller. Geometric continuity constraints for adjacent nurbs patches in shape optimisation. ECCOMAS-2016, 2016
- 8. W. He, **Yang Wang**, V. Elyasigomari, and M. H. Shaheed. Evaluation of the detrimental effects in osmotic power assisted reverse osmosis (RO) desalination. *Renewable Energy*, 93:608–619, 2016
- 9. Y. Geng, G. Qin, **Yang Wang**, and W. He. The research of space-time coupled spectral element method for acoustic wave equations. *Chinese Journal of Acoustics*, 35(01):31–49, 2016
- 10. S. Akbarzadeh, Yang Wang, and J.-D. Müller. Fixed point discrete adjoint of SIMPLE-like solvers. In 22nd AIAA Computational Fluid Dynamics Conference, page 2750, 2015
- 11. Yang Wang, S. Akbarzadeh, and J.-D. Müller. Stabilisation of discrete adjoint solvers for incompressible flow. In 22nd AIAA Computational Fluid Dynamics Conference, page 2749, 2015
- 12. W. He, **Yang Wang**, and M. H. Shaheed. Maximum power point tracking (MPPT) of a scale-up pressure retarded osmosis (PRO) osmotic power plant. *Applied Energy*, 158:584–596, 2015
- 13. W. He, **Yang Wang**, and M. H. Shaheed. Stand-alone seawater RO (reverse osmosis) desalination powered by PV (photovoltaic) and PRO (pressure retarded osmosis). *Energy*, 86:423–435, 2015
- 14. W. He, **Yang Wang**, A. Sharif, and M. H. Shaheed. Thermodynamic analysis of a stand-alone reverse osmosis desalination system powered by pressure retarded osmosis. *Desalination*, 352:27–37, 2014