

Teesside University, UK

- 1. Enhanced Oil Recovery using Nanotechnology Experimental Investigation
- 2. UK Shale Characterisation Application in Hydraulic Fracturing.
- 3. Optimizing the Hydraulic Fracturing Performance while Minimizing its Environmental Impacts
- 4. Remediation of Groundwater Resources using Nanotechnology Experimental and Modelling Investigation
- 5. Heat transfer from a bluff bodies in cross-flow of single and multi-component multiphase flows
- 6. Genetic modification of Pseudomonas putida (XylM, xylS and xylR) genes for effective Bioremediation of oil spill.
- 7. Single and multiphase Flow induced vibration of aerofoil and cylinder in cross flow
- 8. The Role of Visualisation and Augmented Reality in Increasing Energy Efficiency in the Built Environment
- 9. Study of multiphase flow in inclined pipes
- 10. Technologies regulatory frameworks and business models for the near future deployment of energy storage systems in electricity networks.
- 11. The Influence of Biochar on Bacterial-Protozoal Interactions
- 12. Elimination of volatile organic compounds by catalytic oxidation at low temperature
- 13. Computational fluid dynamics for microreactors used in catalytic oxidation of propane
- 14. Investigation of Steady and Transient Heat Transfer from a Pipe Covered with Two Layers of Phase Change Materials and Conventional Insulation



- 15. Whole Life Cycle Information Flow Approach enabled by Building Information Modelling (BIM) Protocols and Technologies
- 16.Semantic Tools for Carbon Reduction in Urban Planning (SEMANCO)
- 17. Developing a hybrid desalination plant with Hydrate Based Desalination (HBD) and Multi Stage Flash (MSH)
- 18. Cavity Enhanced MicroArray as an Ultra-sensitive Tool to aid Sepsis Diagnosis
- 19.Performance improvement in modelling gas-condensate reservoirs
- 20. High-Value, high-temperature materials for Electrical Machines (HiVEM)
- 21. Control and Optimisation for Demand Response Systems
- 22. Sensor Design and development: Two-phase gas-solid flow measurement
- 23. The optimization and development of gas condensate field
- 24. Polymer-supported catalysts for hydrogen production
- 25. Energy Efficient Power Electronic Applications for Traction and Renewables.
- 26. Improving Efficiency of Electric Vehicle (EV) Drive Systems.
- 27. The Development of Phosphine/Phosphine Oxide Redox-Based Organocatalyst
- 28. Artificial Intelligence in gaming and simulation.
- 29. Machine learning for biomedical predictions.
- 30. Evolutionary Algorithms for Solving Multiple Independent Optimization Problems.
- 31. Computational biology for personalised medicine.
- 32. Deep learning on mobile devices.