

## College of Engineering Theses – 2012-2016

### 2016

- Adams, J. (2016). *Development of small specimen test techniques for toughness measurement / Jack Adams*. Thesis (Eng.D.) - Swansea University, 2016., 2016.
- Cavalier-Hirth, V. (2016). *The development and comparison of novel methods for the recovery of activated antibodies for use in the medical diagnostics industry / Victoria Cavalier-Hirth*. Thesis (M.Sc.) - Swansea University, 2016., 2016.
- Chatzirodou, A. (2016). *Impacts of tidal energy extraction on sea bed morphology / Antonia Chatzirodou*. Thesis (Ph.D.) - Swansea University, 2016., 2016.
- Cole, J. (2016). *A parallel stochastic simulation of the endocytosis of nanoparticles by eukaryotic cells / Jessica Cole*. Thesis (Ph.D.) - Swansea University, 2016., 2016.
- Davies, J. (2016). *Electrochemical characterisation of PVD ZnMg / Jonathan Davies*. Thesis (Eng.D.) - Swansea University, 2016., 2016.
- Dowd, M. (2016). *Impact of corrosion features on the remnant fatigue life of a nickel alloy for disc rotor applications title / Michael Dowd*. Thesis (Ph.D.) - Swansea University, 2016., 2016.
- Gardner, S. J. (2016). *Hot section components : characterization of thermomechanical behaviours of advanced casing and bolting alloys / Samuel John Gardner*. Thesis (Eng.D.) - Swansea University, 2016., 2016.
- Garduno Olvera, I. E. (2016). *Numerical simulation of viscoelastic and rotating flows about a sphere / Isaias Emmanuel Garduno Olvera*. Thesis (Ph.D.) - Swansea University, 2016., 2016.
- Holmes, M. A. J. (2016). *A numerical simulation of particulate distribution of the blast furnace raw material burden through the Paul Worth bell-less top apparatus / Marc Andrew Julien Holmes*. Thesis (Eng.D.) - Swansea University, 2016., 2016.
- Kim, S.-h. (2016). *Coupled lattice boltzmann and finite volume method for modelling cross-flow filtration / Soo-hyeong, Kim*. Thesis (Ph.D.) - Swansea University, 2016., 2016.
- Lewis, A. (2016). *Enabling large scale manufacture of solid state mesostructured photovoltaics / Anthony Lewis*. Thesis (M.Res.) - Swansea University, 2016., 2016.
- Lopez Aguilar, J. E. (2016). *Rheological studies on viscoelastic surfactant systems : relevant to*

*bioengineering and cancerous conditions / Jose Esteban Lopez Aguilar*. Thesis (Ph.D.) - Swansea University, 2016., 2016.

Ortigosa Martinez, R. (2016). *On a new variational and computational framework for polyconvex nonlinear continuum mechanics and convex multi-variable nonlinear electro-elasticity / Rogelio Ortigosa Martinez*. Thesis (Ph.D.) - Swansea University, 2016., 2016.

Owen, R. (2016). *Characterisation of gamma titanium aluminide materials and components / Robert Owen*. Thesis (Eng.D.) - Swansea University, 2016., 2016.

Price, M. A. (2016). *A simulation method for compressible multimaterial flows with explosive detonation and structural interactions / Matthew A.Price*. Thesis (Ph.D.) - Swansea University, 2016., 2016.

Tappenden, A. C. (2016). *Parameter estimation of heart, valve and vasculature / Andrew Christopher Tappenden*. Thesis (Ph.D.) - Swansea University, 2016., 2016.

Weberstadt, M. (2016). *A high-fidelity stabilised finite element method for fluid-structure interaction problems / Michael Weberstadt*. Thesis (Ph.D.) - Swansea University, 2016., 2016.

Wint, N. (2016). *The atmospheric corrosion of novel coatings for packaging steel / Natalie Wint*. Thesis (Eng.D.) - Swansea University, 2016., 2016.

## 2015

Aljohani, N. H. (2015). *Characterisation and prediction of nanofiltration charge effects / Naser Hamzah Aljohani*. Thesis (Ph.D.) - Swansea University, 2015.

Banik, R. (2015). *Novel testing techniques to characterise advanced structural materials / Rajiv Banik*. Thesis (Eng.D.) - Swansea University, 2015., 2015.

Barnett, C. J. (2015). *Surface characterisation of ZnO nanowires / Christopher Jonathan Barnett*. Thesis (Ph.D.) - Swansea University, 2015.

Bowditch, M. D. (2015). *Glass waveguides for energy efficient LED lighting applications / Martin Daniel Bowditch*. Thesis (M.Res.) - Swansea University, 2015.

Claypole, J. (2015). *Application of advanced rheometric techniques to printing fluids / James Claypole*. Thesis (Ph.D.) - Swansea University, 2015.

Connolly, M. J. (2015). *Lifting methods against rotor overspeed failure for gas turbine*

- applications / Martin James Connolly. Thesis (Eng. D.) - Swansea University, 2015.*
- Cowcher, D. T. (2015). *Design and analysis of geodesic tensegrity structures with agriculture applications / Daniel Thomas Cowcher. Thesis (Ph.D.) - Swansea University, 2015.*
- Darong, J. (2015). *An hp-finite element computational framework for nonlinear magneto-fluid problems including Magnetostriction / Jin Darong. Thesis (Ph.D.) - Swansea University, 2015.*
- Davies, N. (2015). *Research and development of a CMOS Lab-On-A-Chip silicon IC technology / Nigel Davies. Thesis (Ph.D.) - Swansea University, 2015.*
- Davies, P. D. (2015). *Fatigue characterisation of novell titanium alloys for future aero engine components / P.D. Davies. Thesis (Ph.D.) - Swansea University, 2015.*
- Day, A. G. E. (2015). *The optimisation of tissue regeneration for bone grafts / Adam George Edward Day. Thesis (Ph.D.) - Swansea University, 2015.*
- Edwards, P. (2015). *The effects of weather conditions on rugby union match tactics / Peter Edwards. Thesis (M.Sc.) - Swansea University, 2015., 2015.*
- Faramehr, S. (2015). *Modelling of current collapse and optimization of GaN HEMTs for RF power applications / Faramehr Soroush. Thesis (Ph.D.) - Swansea University, 2015., 2015.*
- Gerardo, M. L. (2015). *Integration of membrane technology in microalgae biorefineries / Michael L. Gerardo. Thesis (Ph.D.) - Swansea University, 2015., 2015.*
- Giannetti, C. (2015). *Knowledge driven approaches for defect reduction and continual improvement / Cinzia Giannetti. Thesis (Eng.D.) - Swansea University, 2015., 2015.*
- Hamblyn, A. (2015). *Effect of plate characteristics on ink transfer in flexographic printing / Anja Hamblyn. Thesis (Ph.D.) - Swansea University, 2015.*
- Hanlon, J. H. (2015). *The contributions of oxidation, mean stress and surface condition on the fatigue response of RR1000 / James Howard O'Hanlon. Thesis (Eng.D.) - Swansea University, 2015., 2015.*
- Havard, G. A. (2015). *Corrosion of oil refinery materials due to biodiesel / Geraint Alun Havard. Thesis (Eng.D.) - Swansea University, 2015., 2015.*
- Hewitt, J. S. (2015). *Titanium alloy developments for "Vision 10" fan disk applications / Jon Simon Hewitt. Thesis (Eng.D.) - Swansea University, 2015.*
- Jin, L. (2015). *Nonlinear dynamics and applications of MEMS and NEMS resonators / Leisheng*

- Jin. Thesis (Ph.D.) - Swansea University, 2015.
- Jones, A. E. J. (2015). *Low cost stainless steels / Adam E.J.Jones*. Thesis (M.Res) - Swansea University, 2015.
- Jones, D. R. (2015). *Characterisation of the surface reactions and gas sensing properties of zinc oxide nanosheets / Daniel Raymond Jones*. Thesis (Ph.D.) - Swansea University, 2015.
- Jothi, S. (2015). *Multiscale modelling and experimentation of hydrogen embrittlement in aerospace materials / Sathiskumar Jothi*. Thesis (Ph.D.) - Swansea University, 2015.
- Kryvchenkova, O. (2015). *Transport simulations of ZnO nanowires and semiconductor devices in the presence of scanning probes / Olga Kryvchenkova*. Thesis (Ph.D.) - Swansea University, 2015.
- Mallett, A. J. (2015). *The optimal loading for peak power in international swimmers / Adam James Mallett*. Thesis (M.Sc.) - Swansea University, 2015., 2015.
- McAdam, S. (2015). *The mechanical characterisation of a high strength, creep resistant steel for aerospace applications / Steven McAdam*. Thesis (Eng.D.) - Swansea University, 2015.
- Mei, J. (2015). *Simulation and characterization on optimum performance of piezoelectric energy harvesters by utilizing multimode mechanical response / Jie Mei*. Thesis (Ph.D.) - Swansea University, 2015.
- Morgan, H. D. (2015). *Industrial case study-driven innovative optimised engineering design / Heather Dawn Morgan*. Thesis (Eng.D.) - Swansea University, 2015.
- Newton, W. (2015). *Development of heat transfer modelling techniques for solving complex industrial problems supported with experimentation / Will Hugh Oakley Newton*. Thesis (Eng.D.) - Swansea University, 2015.
- Petersen, I. (2015). *Contributions to improved ink control in screen printing / Ingmar Petersen*. Thesis (Ph.D.) - Swansea University, 2015.
- Pretty, C. J. (2015). *Thermo-mechanical fatigue crack growth of a polycrystalline nickel alloy / Christopher John Pretty*. Thesis (EngD.) - Swansea University, 2015.
- Rudd, T. F. (2015). *Development of a system for assessing and managing heat exchanger bundle risk / Timothy Francis Rudd*. Thesis (M.Res.) - Swansea University, 2015., 2015.
- Ryan, M. J. (2015). *The effect of hot mill through-process temperature variability on whole coil property variability of AHSS / Michael James Ryan*. Thesis (Eng.D.) - Swansea University, 2015., 2015 year of thesis.

Shamsudeen, S. (2015). *Micro and nano particle drug delivery systems / Sabeel Shamsudeen*. Thesis (Ph.D.) - Swansea University, 2015., 2015.

Suhartono, J. (2015). *Hybrid ozone/multi-walled carbon nanotubes impregnated poly(vinylidene) fluoride membrane systems for enhanced water treatment / Jono Suhartono*. Thesis (Ph.D.) - Swansea University, 2015.

Wang, D. (2015). *Design and implementation of a multi-interface multi-channel wireless mesh network / Dong Wang*. Thesis (M.Sc.) - Swansea University, 2015.

Watkins, S. G. (2015). *Wear fatigue in nickel superalloys / Shaun Gareth Watkins*. Thesis (Eng.D.) - Swansea University, 2015.

Williams, S. R. (2015). *Recovery of small organics from natural sources using membrane technology / Steffan Richard Williams*. Thesis (Ph.D.) - Swansea University, 2015.

Winn, C. O. N. (2015). *Maturation performance and sporting life history in elite junior rugby players / Charles Oliver Nathan Winn*. Thesis (M.Sc.) - Swansea University, 2015.

Wragg, D. A. (2015). *Electrolyte interactions in dye-sensitised solar cells : catalysis, corrosion and corrosion inhibition / David Alexander Wragg*. Thesis (Ph.D.) - Swansea University, 2015.

Yang, L. (2015). *An immersed computational framework for multiphase fluid-structure interaction / Liang Yang*. Thesis (Ph.D.) - Swansea University, 2015.

## 2014

Adzima, M. F. (2014). *Constitutive modelling and finite element simulation of martensitic transformation using a computational multi-scale framework / M. Fauzen Adziman*. Thesis (Ph.D.) - Swansea University, 2014.

Agius, S. C. (2014). *The transpired solar collector : next generation heating / Stacy Christina Agius*. Thesis (M.Res.) - Swansea University, 2014.

Al Abdulgader, H. (2014). *A novel hybrid ion exchange/nanofiltration process for water desalination / Hasan Al Abdulgader*. Thesis (Ph.D.) - Swansea University, 2014.

Annan, S. A. (2014). *Bi-lateral asymmetry as a measure of occupational activity in human remains from the Mary Rose / Simon Andrew Annan*. Thesis (M.Sc.) - Swansea University, 2014.

Ansell, P. (2014). *Imaging synergistic biocides on various surfaces / Philip Ansell*. Thesis (M.Res.)

- Swansea University, 2014.

Ap Llwyd Dafydd, H. (2014). *The visualisation of fingermarks using the scanning kelvin probe (SKP) / Hefin Ap Llwyd Dafydd*. Thesis (Ph. D.) - Swansea University, 2014.

Ardi, D. T. (2014). *The effects of surface topography on the life of critical gas turbine components / Dennise Tanoko Ardi*. Thesis (Ph.D.) - Swansea University, 2014.

Baker, J. (2014). *Development and characterisation of graphene ink catalysts for use in dye sensitised solar cells / Jenny Baker*. Thesis (Ph.D.) - Swansea University, 2014.

Benson, J. (2014). *Development of a cortisol biosensor / James Benson*. Thesis (M.Sc.) - Swansea University, 2014.

Bestley, C. (2014). *In-service application of composite repair solution / Chris Bestley*. Thesis (Eng.D.) - Swansea University, 2014.

Bin Darwish, N. N. (2014). *Boron removal from saline water / Nawaf Naif Bin Darwish*. Thesis (Ph.D.) - Swansea University, 2014.

Blayney, G. J. (2014). *Investigation of wafer processing technologies for the production of low-cost, improved efficiency Si PV cells / Gareth John Blayney*. Thesis (Ph.D.) - Swansea University, 2014.

Brennan, D. A. (2014). *NIR curing of high performance coatings / Desmond A. Brennan*. Thesis (M. Res.) - Swansea University, 2014.

Brown, R. A. (2014). *Interaction of mammalian cells with ZnO nanowire arrays : towards a piconewton force sensor / Richard A. Brown*. Thesis (Ph.D.) - Swansea University, 2014.

Bryant, D. T. J. (2014). *The development of room temperature transparent conductive adhesive laminate technology and its use in flexible opto-electronic devices / Daniel T.J. Bryant*. Thesis (Eng.D.) - Swansea University, 2014.

Burwell, G. (2014). *Epitaxial graphene growth and biosensor fabrication / Gregory Burwell*. Thesis (Ph.D.) - Swansea University, 2014.

Chan, K. C. (2014). *Electrical measurements and UV-assisted gas detection of ZnO nanowires / Ka Cheung Chan*. Thesis (Ph.D.) - Swansea University, 2014.

Chew, Z. J. (2014). *Integrated transducers and nanostructure synthesis / Zheng Jun Chew*. Thesis (Ph.D.) - Swansea University, 2014.

Evans, J. E. (2014). *Growth and functionalisation of zinc oxide nanowires for biosensing*

- applications / Jonathan Edward Evans. Thesis (Ph.D.) - Swansea University, 2014., 2014.*
- Fields, S. (2014). *Building a software tool for simulating the multi-physics of thermal protection systems / Shaun Fields. Thesis (Ph.D.) - Swansea University, 2014.*
- Finn, G. (2014). *Effect of roller levelling on tinsplate and chrome plated strip shape / Gemma Finn. Thesis (M.Res.) - Swansea University, 2014.*
- Foulston, S. (2014). *Waste treatment processes associate with the treatment and coating of steel press rolls / Sakulrat Foulston. Thesis (M.Res.) - Swansea University, 2014.*
- Galvin, D. R. (2014). *Control of through process nitrogen pickup in EAF steelmaking / Deri Rhys Galvin. Thesis (M. Res.) - Swansea University, 2014.*
- Gibson, G. J. (2014). *High temperature corrosion-fatigue lifing methods for nickel based superalloys / Grant James Gibson. Thesis (Eng.D.) - Swansea University, 2014.*
- Glover, C. (2014). *Thin organic coatings for hot dip galvanised steel and cold rolled products / Carol Glover. Thesis (Eng.D.) - Swansea University, 2014.*
- Gowenlock, C. (2014). *Near infrared curing of high performance coil coatings / Cathren Gowenlock. Thesis (Eng.D.) - Swansea University, 2014.*
- Hafezi, F. (2014). *Computational modelling of fluid-structure interaction at nano-scale boundaries / Faraneh Hafezi. Thesis (Ph.D.) - Swansea University, 2014.*
- Hayward, F. P. I. (2014). *A longitudinal examination of stressors, appraisals, and coping in youth swimming / Francesca P. I. Hayward. Thesis (M.Sc.) - Swansea University, 2014.*
- Herlihy, C. E. (2014). *Quantification of the benefits of using steel in the UK residential sector using LCA in terms of GWP / Catherine Elizabeth Herlihy. Thesis (D.Eng.) - Swansea University, 2014.*
- Hicks, A. (2014). *Passive monitoring of marine mammals : development and evaluation of an approach combining acoustic monitoring with visual observation / Alice Hicks. Thesis (M.Res.) - Swansea University, 2014.*
- Holder, A. J. (2014). *Experimental studies of complex fluids in complex flows / Alexander Joseph Holder. Thesis (Ph.D.) - Swansea University, 2014.*
- Hooper, K. E. A. (2014). *Rapid processing of dye-sensitised solar cells using near infrared radiative heating / Katherine Elizabeth Anne Hooper. Thesis (Ph.D.) - Swansea University, 2014.*

- Howells, S. A. (2014). *Understanding production yield discrepancies between slab and hot rolled coil* / Sarah Ann Howells. Thesis (M.Res.) - Swansea University, 2014.
- Jefferies, S. P. (2014). *On-cooling properties and microstructure studies of Ti-6Al-4V* / Spencer Pendrell Jefferies. Thesis (Ph.D.) - Swansea University, 2014.
- Jenkins, T. (2014). *Evaluation of rolling capability for various electrical steel grades at Port Talbot hot mill for the use in the power industry* / Thomas Jenkins. Thesis (M.Res.) - Swansea University, 2014.
- Jiang, L. (2014). *Investigation of liquid ingress into polymers by various techniques* / Lejun Jiang. Thesis (M.Res.) - Swansea University, 2014.
- Johnston, M. J. (2014). *The physiological response to maximal speed training : influence of session number and order* / Michael John Johnston. Thesis (Ph.D.) - Swansea University, 2014.
- Kadapa, C. (2014). *Mixed galerkin and least-squares formulations for isogeometric analysis* / Chennakesava Kadapa. Thesis (Ph.D.) - Swansea University, 2014.
- Kapoor, A. S. (2014). *Development of a parallel CFD solver with application to arterial flows* / Amarpal Singh Kapoor. Thesis (Ph.D.) - Swansea University, 2014.
- Kasmuri, N. (2014). *The removal of ammonia - nitrogen and degradation of 17 $\alpha$ -ethynylestradiol and mestranol using partial fixed bed continuous reactor (PFBR) and moving bed continuous reactor (MBBR)* / Norhafezah Kasmuri. Thesis (Ph.D.) - Swansea University, 2014.
- Lewis, F. R. (2014). *Emotional experience at junior tennis tournaments* / Francesca Rosanna Lewis. Thesis (M.Sc.) - Swansea University, 2014.
- Liang, R. (2014). *Morphology analysis of tensegrity structures* / Rui Liang. Thesis (M.Res.) - Swansea University, 2014.
- Littlehales, A. (2014). *Optimisation of organic coating layers to improve corrosion resistance on next generation galvanised steels* / Andrew Littlehales. Thesis (Eng.D.) - Swansea University, 2014.
- Marshall, T. I. (2014). *Understanding the wear characteristics of cobalt based alloys in liquid metal environments* / Thomas Ian Marshall. Thesis (M.Res.) - Swansea University, 2014.
- Mohd Azmi, M. A. B. (2014). *Integrated silicon nanowire biosensor and MEMS based delivery systems* / Mohd Azraie Bin Mohd Azmi. Thesis (Ph.D.) - Swansea University, 2014.



- Môn, D. (2014). *Fullerene crystallisation in Fullerene/Polymer bilayers / Dyfrig Môn*. Thesis (Ph.D.) - Swansea University, 2014.
- Pearson, N. (2014). *Band-limitations and non-linearities of magnetic flux leakage in the context of non-destructive testing / Neil Pearson*. Thesis (Ph.D.) - Swansea University, 2014.
- Phillips, M. A. (2014). *Acceptance & commissioning of an automated optical emission spectrometer for process control at an integrated steelworks / Mark A. Phillips*. Thesis (M.Res.) - Swansea University, 2014.
- Richards, J. (2014). *A mechanical and microstructural comparison of induction bent, welded and seamless plain carbon steel tubes / Jonathan Richards*. Thesis (M.Res.) - Swansea University, 2014.
- Shakib, M. (2014). *The hot working properties of high strength steels under compressive loading / Michael Shakib*. Thesis (Ph.D.) - Swansea University, 2014.
- Smith, D. (2014). *The reliability and validity of three field tests for predicting lower limb peak instantaneous power and average power in a countermovement vertical jump in male athletes / Dan Smith*. Thesis (M.Sc by research) - Swansea University, 2014.
- Smith, L. (2014). *Structural studies of liquid and crystalline water under degrees of metastability / Lloyd Smith*. Thesis (Ph.D.) - Swansea University, 2014., 2014.
- Sparkes, W. (2014). *The impact of key game characteristics on the recovery kinetics of neuromuscular, biochemical, endocrine and mood markers in professional soccer players / William Sparkes*. Thesis (M.Sc.) - Swansea University, 2014., 2014.
- Tabatabaei, S. (2014). *Numerical prediction for thixotropic and non-thixotropic material systems in complex flow / Sorour Tabatabaei*. Thesis (Ph.D.) - Swansea University, 2014.
- Tarat, A. (2014). *Nanocrystalline ZnO obtained from pyrolytic decomposition of layered basic zinc acetate : introducing a novel rapid microwave-assisted hydrothermal technique / Afshin Tarat*. Thesis (Ph.D.) - Swansea University, 2014.
- Tasker, L. H. (2014). *Seat shape acquisition, analysis & optimisation for pressure ulcer prevention / Lorna Helen Tasker*. Thesis (Ph.D.) - Swansea University, 2014.
- Taylor, T. J. (2014). *New generation advanced high strength steels for automotive hot stamping technologies / Thomas James Taylor*. Thesis (Eng.D.) - Swansea University, 2014.
- Teixeira, S. (2014). *Graphene and carbon nanotube biosensors for detection of human chorionic gonadotropin / Sofia Teixeira*. Thesis (Ph.D.) - Swansea University, 2014.

Thomas, D. (2014). *Integrated biosensor and microfluidics point of care system / Daniel Thomas*. Thesis (M.Sc.) - Swansea University, 2014.

Thomas, J. P. (2014). *Upcycling of polymeric materials by incorporating property-enhancing nanofillers / Joseph Paul Thomas*. Thesis (M.Res.) - Swansea University, 2014.

Turner, D. (2014). *Impact of acute resistance exercise on Glycaemia in individuals with type 1 diabetes / Daniel Turner*. Thesis (Ph.D.) - Swansea University, 2015.

Vyas, N. (2014). *Development of novel coatings for dye-sensitized solar cell applications / Niladri Vyas*. Thesis (Ph.D) - Swansea University, 2015.

Waldram, R. (2014). *Investigating nickel ion release from nickel plate using various test methods / Rebecca Waldram*. Thesis (M.Res.) - Swansea University, 2014.

Ware, M. J. (2014). *Development of engineering approaches to study dose response in vitro for nanomedicine applications / Matthew James Ware*. Thesis (Ph.D.) - Swansea University, 2014.

Wilde, C. (2014). *Quality assurance of a human stem cell bank / Charlotte Wilde*. Thesis (M.Res.) - Swansea University, 2014.

Wisbey, J. L. (2014). *Joining, repair and structural integrity of IN718 aerospace material / Jonathan Lewis Wisbey*. Thesis (M.D.) - Swansea University, 2014.

Zangiabadi, E. (2014). *Using 3D-CFD methods to investigate hydrology of oceans and fish passage through tidal stream turbines / Enayatollah Zangiabadi*. Thesis (Ph.D.) - Swansea University, 2014.

Ziyenge, N. P. (2014). *Operational characteristics of an experimental wireless M.I.M.O. testbed / Nhamburo Patrick Ziyenge*. Thesis (M.Res.) - Swansea University, 2014.

## 2013

Ajaj, R. M. (2013). *Design, modelling and optimisation of morphing structures for medium altitude long endurance UAVs / Rafic Mohammad Ajaj*. Thesis (Ph.D.) - Swansea University, 2013.

Alkhudhiri, A. I. (2013). *Treatment of saline solutions using air gap membrane distillation (AGMD) / Abdullah Ibrahim Alkhudhiri*. Thesis (Ph.D.) - Swansea University, 2013.

Altowaijri, S. (2013). *Grid and cloud computing : technologies, applications, market sectors, and workloads / Saleh Altowaijri*. Thesis (Ph.D.) - Swansea University, 2013.

- Alzubi, O. A. (2013). *Designing machine learning ensembles : a game coalition approach / Omar A. Alzubi*. Thesis (Ph.D.) - Swansea University, 2013.
- Badiei, N. (2013). *Microstructural and rheological studies of fibrin-thrombin gels / Nafiseh Badiei*. Thesis (Ph.D.) - Swansea University, 2013.
- Bagnall, S. (2013). *Thermal degradation of austenitic stainless steels / Sarah Bagnall*. Thesis (M.Res) - Swansea University, 2013.
- Benamer, M. R. O. (2013). *Computational modelling of hysteresis and damage in reinforced concrete bridge columns subject to seismic loading / Mohamed R. Omar Benamer*. Thesis (Ph.D.) - Swansea University, 2013.
- Burton, L. (2013). *Outlets for waste glass / Luke Burton*. Thesis (M.Res.) - Swansea University, 2013.
- Cockings, B. (2013). *Effects of loading condition on the static and dynamic behaviour of high strength aerospace materials / Bengamin Cockings*. Thesis (Ph. D.) - Swansea University, 2013.
- Davies, T. G. (2013). *The analysis of bonded repair solutions for primary composite aircraft structures / Thomas Gethin Davies*. Thesis (Eng.D.) - Swansea University, 2013.
- Echendu, S. O. S. (2013). *Computational and rheological studies for coating flows / Shirley Ogechukwu Somtochukwu Echendu*. Thesis (Ph.D.) - Swansea University, 2013.
- Feng, J. (2013). *Probabilistic modelling of heterogeneous media / Jianwen Feng*. Thesis (Ph.D.) - Swansea University, 2013.
- Griffiths, C. (2013). *Iron oxide corrosion products on the waterside of marine boiler superheaters / Christian Griffiths*. Thesis (M.Res.) - Swansea University, 2013.
- Guan, W. (2013). *Adaptive QoS control of DSRC vehicle networks for collaborative vehicle safety applications / Wenyang Guan*. Thesis (Ph.D.) - Swansea University, 2013.
- Guo, J. (2013). *The parameter calibration of discrete element method for concrete / Jingye Guo*. Thesis (M.Res.) - Swansea University, 2013.
- Hakami, M. W. (2013). *Humic acid removal and fouling using tubular ceramic microfiltration membranes combined with coagulation / Mohammed Wali Hakami*. Thesis (Ph.D.) - Swansea University, 2013.
- Hallin, I. L. (2013). *Impact of heterogeneity and biochar on soil water repellency : measurement*

- and mechanisms / Ingrid Liv Hallin. Thesis (Ph. D.) - Swansea University, 2013.*
- Hamdoun, H. (2013). *Practical network coding schemes for energy efficient long term evolution radio access networks / Hassan Hamdoun. Thesis (Ph.D.) - Swansea University, 2013.*
- Hill, L. (2013). *On the effects of special boundary geometries on intergranular corrosion and grain boundary evolution in aluminium / Lisa Hill. Thesis (Ph.D.) - Swansea University, 2013.*
- Hobbins, J. A. (2013). *In-service health and safety risks of epoxy/MWCNT nanocomposites / Joshua Aaron Hobbins. Thesis (M.Res.) - Swansea University, 2013.*
- Husain, S. M. (2013). *Computational investigation of skimming flow on stepped spillways using the smoothed particle hydrodynamics method / Sarhang Mustafa Husain. Thesis (Ph.D.) - Swansea University, 2013.*
- Jiang, L. (2013). *On human gut microbial ecosystem : In vitro experiment, in vivo study and mathematical modelling / Lei Jiang. Thesis (Ph.D.) - Swansea University, 2013.*
- Jones, B. (2013). *Characterisation of porous media using the lattice Boltzmann method / Bruce Jones. Thesis (Ph.D.) - Swansea University, 2013.*
- Jones, C. (2013). *Technical and tactical factors to model success in rugby union / Carys Jones. Thesis (M.Phil.) - Swansea University, 2013.*
- Jones, D. P. (2013). *The influence of electromagnetic pulses on the release of silver from wound healing dressings / David Philip Jones. Thesis (M.Res.) - Swansea University, 2013.*
- Jones, G. R. (2013). *Analysis of beach profiles on a composite sand gravel beach : a study of beach face change on Sker Beach / Gregory Robwood Jones. Thesis (M.Res.) - Swansea University, 2013.*
- Little, R. B. (2013). *Process optimisation for galvanised structural products / Richard Brian Little. Thesis (M. Res.) - Swansea University, 2013.*
- Lord, A. M. (2013). *Electronic and structural properties of Au contacts on ZnO Nanowires / Alexander M. Lord. Thesis (Ph.D.) - Swansea University, 2013.*
- Marsland, W. E. (2013). *Positive release of hot-dip galvanised automotive material to prevent coating adhesion failure at customer / Wayne Edmund Marsland. Thesis (Ph.D.) - Swansea University, 2013.*
- Mason, K. R. (2013). *Development of numerical schemes to improve the efficiency of CFD simulation of high speed viscous aerodynamic flows / Kevin Richard Mason. Thesis*

- (Ph.D.) - Swansea University, 2013.
- McMahon, J. B. (2013). *The effect of through process variability on the final grain size and magnetic performance of grain-oriented electrical steel / Joshua Brendan McMahon*. Thesis (M. Res.) - Swansea University, 2013.
- Mehraban, S. (2013). *Corrosion mechanism, inhibition and mechanical properties of zinc magnesium aluminium alloy coated galvanised steel / Shahin Mehraban*. Thesis (Eng. D.) - Swansea University, 2013.
- Nagy, D. (2013). *Pulsed electromagnetic waves used for healing of chronic ulcerated wounds / Daniel Nagy*. Thesis (M. Res.) - Swansea University, 2013.
- Nyanin, K. A. (2013). *Combustion of granulated coal in blast furnace / Kagya Agyeman Nyanin*. Thesis (M.Res.) - Swansea University, 2013.
- Pal, A. (2013). *Low profile pattern reconfigurable square loop antenna / Arpan Pal*. Thesis (Ph.D.) - Swansea University, 2013.
- Pantin, T. (2013). *Novel coatings for Boron steels / Thomas Pantin*. Thesis (M. Res.) - Swansea University, 2013.
- Price, K. (2013). *Optimising the processing parameters of grain oriented electrical steel to improve core loss / Kimberley Price*. Thesis (M.Res.) - Swansea University, 2013.
- Priewald, R. H. (2013). *Quantitative characterisation of defects in steel plates from MFL signals using inverse finite element modelling / Robin H. Priewald*. Thesis (Ph.D.) - Swansea University, 2013.
- Quiney, Z. (2013). *Rolling contact fatigue detection via high frequency acoustic emission / Zak Quiney*. Thesis (Ph.D.) - Swansea University, 2013.
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