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## Employment

### Professor

School of Natural and Built Environment  
Queen's University Belfast  
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01 Jan 2012 → present

## Research output

### **Effects of slag substitution on physical and mechanical properties of fly ash-based alkali activated binders (AABs)**

Rafeet, A. M., Vinai, R., Soutsos, M. & Sha, W., 01 Aug 2019, In : Cement and Concrete Research. 122, p. 118-135 18 p.

### **Demonstration of using low carbon precast concrete products for an energy efficient built environment**

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### **Improving the Recycling Rate of the Construction Industry**

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### **Effect of coarse aggregates on FRP strain distribution in an FRP-to-concrete bonded joint**

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### **Lagoon fly ash – a potential source of the precursor for geopolymer binders**

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### **Compressive strength estimates of adiabatically cured concretes using maturity methods**

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### **Efficient mix design of alkali activated slag concretes based on packing fraction of ingredients and paste thickness**

Bondar, D., Nanukuttan, S., Provis, J. L. & Soutsos, M., 01 May 2019, In : Journal of Cleaner Production. 218, p. 438-449 12 p.

### **Radiological characterisation of alkali-activated construction materials containing red mud, fly ash and ground granulated blast-furnace slag**

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**Radiological evaluation of industrial residues for construction purposes correlated with their chemical properties**

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**LowCoPreCon – Low Carbon Precast Concrete Products for an Energy Efficient Built Environment**

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**Production of sodium silicate powder from waste glass cullet for alkali activation of alternative binders**

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**Assessment of behaviour and cracking susceptibility of cementitious systems under restrained conditions through ring tests: A critical review**

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**Comparison of the effect of mix proportion parameters on behaviour of geopolymer and Portland cement mortars**

Kwasny, J., Soutsos, M. N., McIntosh, J. A. & Cleland, D. J., 30 Oct 2018, In : Construction and Building Materials. 187, p. 635-651

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**Effect of slag content and activator dosage on the resistance of fly ash geopolymer binders to sulfuric acid attack**  
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**Comparison of lithomarge and cement-based mortars performance in aggressive aqueous environments**

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#### **Fly Ash**

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#### **Ground Granulated Blast-Furnace Slag**

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#### **Effect of temperature on the heat evolution of blended cements - The DTI core project**

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#### **Numerical modelling of UHPFRC beams under impact load**

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#### **The Influence of Paste Content, Water-to-Solid Ratio and Binder Blend on Compressive Strength and Workability of Ambient Temperature Cured Alkali Activated Concrete**

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**Radiological evaluation of by-products used in construction and alternative applications; Part I. - preparation of natural radioactivity database**

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**Effect of temperature on the cracking risk of concretes containing ground granulated blast-furnace slag**

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**The Effect of Temperature on the Rate of Strength Development of Mortar Mixes**

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**Use of Recycled Demolition Aggregate in Precast Concrete Products**

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**Non Destructive Assessment of Concrete Strength: The Challenge of Calibration**

Breysse, D., Soutsos, M. & Moczko, A., Apr 2010, *MEDACHS 10, 2nd International Conference on "Construction Heritage in Coastal and Marine Environments. Damage, Diagnostics, Maintenance and Rehabilitation," April 28-30, 2010, La Rochelle, France*. p. 1-11 11 p.

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Soutsos, M. & Bungey, J. H., 2010, *Non-destructive Evaluation of Reinforced Concrete Structures, Volume 1: Deterioration Processes and Standard Test Methods*. Maierhofer, C., Reinhardt, H-W. & Dobmann, G. (eds.). Woodhead, Cambridge, UK, Vol. 1. p. 1-23

**Introduction: Key Issues in the Non-Destructive Testing of concrete Structures**

Soutsos, M., 2010, *Non-destructive Evaluation of Reinforced Concrete Structures, Volume 1: Deterioration Processes and Standard Test Methods*. Maierhofer, C., Reinhardt, H-W. & Dobmann, G. (eds.). Taylor and Francis, p. 1-23 23 p.

**The Effect of Temperature on the Rate of Strength Development of Slag Cement**

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**Current Research on Sustainable Construction Products at the University of Liverpool**

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**Concrete Durability: A Practical Guide to the Design of Durable Concrete Structures**

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**Reactive Glass Powder Concrete (RGPC) – "Green" Flags for "Green" Pavements**

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**Determination of Fibre Orientation in UHPFR and Evaluation of its Effect on Mechanical Properties**

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**How to improve the quality of concrete assessment by combining several NDT measurements**

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**Influence of aggregate and curing regime on the mechanical properties of ultra-high performance fibre reinforced concrete (UHPC)**

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**Interpretation of In-situ Concrete Test Results**

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**Chapter 18: Special Concretes**

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**Special Concretes**

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**Concrete Block Paving and Flags Made With Recycled Demolition Aggregate**

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**Dynamic Testing of Ultra High Performance Fibre Reinforced Concrete**

Barnett, S. J., Millard, S. G., Schleyer, G. K., Soutsos, M. & Tyas, A., Sep 2008, p. 125-131. 7 p.

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Barnett, S. J., Soutsos, M., Millard, S. G. & Bungey, J. H., Sep 2008, p. 145-152. 8 p.

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**Statistical Analysis of Pull-Out Tests – The European Concrete Frame Building Project**

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**UHPC - Optimisation of mix proportions**

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**Concrete strength prediction in structural elements made with pulverised fuel ash**

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**Finite Element Modelling of In-situ PFA Concrete Strength Development**

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**Strength development of mortars containing ground granulated blast-furnace slag: Effect of curing temperature and determination of apparent activation energies**

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Millard, S. G. & Soutsos, M., Aug 2005, In : Concrete. 8, 8, p. 17-19 3 p.

**The Effect of the Level of Cement Replacement with Ground Granulated Blastfurnace Slag on the Strength Development and Adiabatic Temperature Rise of Concrete Mixes**

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Jones, N., Soutsos, M., Millard, S. G., Bungey, J. H., Tickell, R. G. & Gradwell, J., Jul 2005, p. 237-244. 8 p.

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Soutsos, M. & Millard, S. G., May 2005, p. 549-560. 12 p.

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**Using recycled demolition waste in concrete building blocks**  
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**Fast Track Construction with Pozzolanic Concrete Mixes**  
Barnett, S. J., Soutsos, M., Millard, S. G. & Bungey, J. H., Mar 2004, p. 135-151. 17 p.

**Dielectric properties of concrete and their influence on radar testing**  
Soutsos, M., Bungey, J. H., Millard, S. G., Shaw, M. R. & Patterson, A., Sep 2001, In : NDT & E International. 34, 6, p. 419-425 7 p.

**Reliability of partially-destructive tests to assess the strength of concrete on site**  
Bungey, J. H. & Soutsos, M., Jun 2001.

**Reliability Of Partially Destructive Tests To Assess The Strength Of Concrete On Site**  
Soutsos, M., Mar 2001, In : Construction and Building Materials. 15 (2-3), 2-3, p. 81-92 12 p.

**Dielectric properties of concrete and their influence on radar testing.**  
Soutsos, M., Bungey, J. H., Millard, S. G., Shaw, M. R. & Patterson, A., Apr 2000, p. 519-527. 9 p.

**In-situ strength assessment of concrete - The European concrete frame building project**  
Soutsos, M., Bungey, J. H., Long, A. & Henderson, G. D., Apr 2000, p. 583-592. 10 p.

**In-situ strength assessment of concrete - The European Concrete Frame Building Project (Reprinted from Non-Destructive Testing Civil Engineering, April, pg 583-592, 2000)**  
Soutsos, M., Bungey, J. H., Long, A. & Henderson, G. D., 2000, In : Insight. 42, p. 432-435 4 p.

**Vibration Of Fresh Concrete: Experimental Set-Up And Preliminary Results**  
Soutsos, M., Bungey, J. H. & Brizell, M., Sep 1999, p. 91-101. 11 p.

**The Influence Of Environmental Factors On Subsurface Radar Testing Of Structural Concrete**  
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**Behaviour of Normal- and High-Strength Concretes During Vibration**

Soutsos, M., Bungey, J. H., Brizell, M. J. & Henderson, G. D., Jun 1999, p. 391-407. 17 p.

**Assessing Bridge Pier Scour By Radar**

Millard, S. G., Bungey, J. H., Thomas, C., Soutsos, M., Shaw, M. R. & Patterson, A., Aug 1998, In : NDT & E International. 31 (4), 4, p. 251-258 8 p.

**Compaction Of High Strength Concrete By Internal Vibration**

Soutsos, M., Bungey, J. H. & Brizell, M. J., Aug 1998, p. 75-97. 23 p.

**Evaluation Of Riverbed Scour Using Impulse Radar Methods**

Millard, S. G., Thomas, C., Patterson, A. J., Soutsos, M. & Bungey, J. H., Jul 1998, p. 1-8. 8 p.

**Modeling of subsurface pulsed radar for nondestructive testing of structures**

Millard, S. G., Shaw, M. R., Giannopoulos, A. & Soutsos, M., 1998, In : Journal of Materials in Civil Engineering. 10, 3, p. 188-196 9 p.

**The Influence Of Concrete Composition Upon Radar Test Results**

Bungey, J. H., Shaw, M. R., Millard, S. G., Soutsos, M. & Austin, B. A., Jul 1997, In : Insight. 39 (7), p. 474-481 8 p.

**Assessing bridge pier scour by radar**

Millard, S. G., Bungey, J. H., Thomas, C., Soutsos, M., Shaw, M. R. & Patterson, A., Apr 1997.

**The influence of concrete composition upon radar test results**

Bungey, J. H., Shaw, M. R., Millard, S. G., Soutsos, M. & Austin, B. A., Apr 1997.

**Properties of high-strength concrete mixes containing PFA and ggbs**

Domone, P. L. & Soutsos, M., 1997, In : Magazine of Concrete Research. 49, p. 263-264 2 p.

**Development Of High Strength Concrete Mixes With Low Heat Generation**

Soutsos, M. & Domone, P. L. J., Jun 1996, p. 677-684. 8 p.

**Improving Concrete Durability In A Mediterranean Environment - Examples of Silica Fume Usage in Cyprus**

Soutsos, M., Panteli, F. & Kyriacou, K., Apr 1996, In : Concrete International. 18 (4), p. 37-42 6 p.

**Quality Control In The Cypriot Construction Industry - Lessons Learned From Durability Problems**

Soutsos, M. & Panteli, F., Sep 1995, p. 297-303. 7 p.

**Radar assessment of river-bed scour at bridges**

Bungey, J., Millard, S., Thomas, C., Soutsos, M. & Shaw, M., Sep 1995, p. 69-76. 8 p.

**Properties of high-strength concrete mixes containing PFA and ggbs**

Domone, P. L. & Soutsos, M., 1995, In : Magazine of Concrete Research. 47, p. 355-367 13 p.

**An Approach To The Proportioning Of High Strength Concrete Mixes**

Domone, P. L. J. & Soutsos, M., Oct 1994, In : Concrete International. 6 (10), p. 26-31 6 p.

**Design Of High Strength Concrete Mixes With Normal Weight Aggregates**

Soutsos, M. & Domone, P. L. J., Jun 1993, p. 937-944. 8 p.

**Strength Development Of Low Water-Binder Ratio Mixes Incorporating Mineral Admixtures**

Soutsos, M. & Domone, P. L. J., Jun 1993, p. 945-952. 8 p.

**Workability Of High Strength Concrete Mixes As Defined By Tattersall's Two Point Test**  
Soutsos, M. & Domone, P. L. J., Jun 1993, p. 929-936. 8 p.

## **Activities**

**Autogenous Shrinkage of Cement-Based Materials: From the Fundamental Role of Self-Desiccation to Mitigation Strategies Based on Alternative Materials**  
Marios Soutsos (Examiner)  
20 Oct 2017

**Radiological evaluation of by-products used in construction and alternative applications; Preparation of By-BM natural radioactivity database**  
Zoltan Sas (Presenter), , Wouter Schroeyers (Contributor), , Rory Doherty (Contributor), , Wei Sha (Contributor), & Marios Soutsos (Contributor)  
02 Oct 2017 → 05 Oct 2017

**Natural radioactivity related concerns of synthetic construction materials; Introduction of By-BM Project**  
Zoltan Sas (Presenter), , Wouter Schroeyers (Contributor), , Marios Soutsos (Contributor), , Wei Sha (Contributor), & Rory Doherty (Contributor)  
13 Sep 2017

**UG External Examiner**  
Marios Soutsos (Examiner)  
01 Sep 2017 → 31 Aug 2020

**COST Action TU1301 NORM4Building Final Symposia**  
Zoltan Sas (Speaker), , Tibor Kovacs (Speaker), , Gergo Bator (Contributor), , Rory Doherty (Contributor), , Marios Soutsos (Contributor), & Wouter Schroeyers (Participant)  
07 Jun 2017

**Effect of Improper Curing on Concrete Properties that may Affect Concrete Durability**  
Marios Soutsos (Examiner)  
21 Apr 2017

**Durability of geopolymer concrete**  
Marios Soutsos (Examiner)  
03 Apr 2017

**Key Factors Affecting Distribution and Orientation of Fibres in Steel Fibre Reinforced Concrete and Subsequent Effects on Mechanical Properties**  
Marios Soutsos (Examiner)  
17 Jan 2017

**Construction and Building Materials (Journal)**  
Marios Soutsos (Peer reviewer)  
2017

**Introduction to By-BM database built for characterization of industrial by-products from environmental radioactivity point of view**  
Zoltan Sas (Presenter), , Wouter Schroeyers (Contributor), , Marios Soutsos (Contributor), , Wei Sha (Contributor), , Rory Doherty (Contributor), & Tibor Kovacs (Contributor)  
06 Dec 2016

**Global Challenges Workshop**

Marios Soutsos (Participant)  
13 Nov 2016 → 18 Nov 2016

**Development of Brown Coal Fly Ash Geopolymer Concrete**

Marios Soutsos (Examiner)  
05 Oct 2016

**Introduction of By-BM H2020-MSCA-IF-2015 project**

Zoltan Sas (Presenter), , Rory Doherty (Contributor), , Marios Soutsos (Contributor), , Wei Sha (Contributor), & Wouter Schroeyers (Contributor)  
18 May 2016

**Multi-stage microwave curing for manufacturing alkali-activated fly ash**

Marios Soutsos (Examiner)  
19 Apr 2016

**Performance of structural lightweight oil palm shell concrete incorporating high volume ground granulated blast furnace slag**

Marios Soutsos (Examiner)  
19 Aug 2015

**Activated hybrid cementitious system using Portland cement and high volume Colombian fly ash with sodium sulfate**

Marios Soutsos (Examiner)  
27 Jul 2015

**Using South African fly ash as a component of alkali-activated binder**

Marios Soutsos (Examiner)  
29 Jan 2015

**Post restrained shrinkage behaviour of plain and fibre reinforced concrete**

Marios Soutsos (Examiner)  
10 May 2014

**The use of ternary blended binders in high consistence concrete**

Marios Soutsos (Examiner)  
24 Apr 2014

**Proceedings of the ICE - Construction Materials (Journal)**

Marios Soutsos (Editor)  
2014 → 2017

**Durability as a Function of Microstructure of Alkali-Activated Slag/Fly Ash Binder**

Marios Soutsos (Examiner)  
18 Oct 2013

**Ground borne vibrations from high speed trains**

Marios Soutsos (Examiner)  
14 Aug 2013

**External Examiner, PhD**

Marios Soutsos (Examiner)  
10 Feb 2012

**External Examiner, PhD**  
Marios Soutsos (Examiner)  
2011

**2nd International Conference on Durability of Concrete Structures, Scientific Committee**  
Marios Soutsos (Member of the scientific committee)  
24 Nov 2010 → 26 Nov 2010

**External Examiner, PhD**  
Marios Soutsos (Examiner)  
25 Oct 2010

**2nd International Conference on Sustainable Construction Materials and Technologies, Università Politecnica delle Marche, Ancona, Italy**  
Marios Soutsos (Member of the scientific committee)  
28 Jun 2010 → 30 Jun 2010

**2nd International Conference on Marine Environment Damage to Coastal and Historical Structures à Mechanisms of degradation, Durability, Diagnostics, Maintenance and Rehabilitation**  
Marios Soutsos (Member of the scientific committee)  
28 Apr 2010 → 30 Apr 2010

**International Conference on Sustainable Built Environment and Infrastructure in Developing Countries, address entitled "Current Research at the University of Liverpool", Algeria**  
Marios Soutsos (Invited speaker)  
12 Oct 2009 → 14 Oct 2009

**External Examiner, PhD**  
Marios Soutsos (Examiner)  
25 Sep 2009

**7th International Symposium on Non-Destructive Testing in Civil Engineering, Nantes, France**  
Marios Soutsos (Member of the scientific committee)  
30 Jun 2009 → 03 Jul 2009

**External Examiner, PhD**  
Marios Soutsos (Examiner)  
23 Feb 2009

**External Examiner PhD**  
Marios Soutsos (Examiner)  
09 Jan 2009

**External Examiner, PhD**  
Marios Soutsos (Examiner)  
15 Dec 2008

**Concrete Communication Conference**  
Marios Soutsos (Member of the organising committee)  
01 Sep 2008 → 02 Sep 2008

**SACoMaTiS 2008: RILEM International Conference: On Site Assessment of Concrete, Masonry and Timber Structures**  
Marios Soutsos (Member of the organising committee)  
01 Sep 2008 → 02 Sep 2008

**1st International Conference on "Construction Heritage in Coastal and Marine Environments. Damage, Diagnostics, Maintenance and rehabilitation", Lisbon, Portugal.**

Marios Soutsos (Member of the organising committee)  
28 Jan 2008 → 30 Jan 2008

**Invited member of the Round Table Group – The Leading Authority in Expert Witness**

Marios Soutsos (Member)  
2008 → 2012

**Invitation by The Institute of Concrete Technology to present "Precast Concrete Products made with Recycled Demolition Aggregate", at the 35th Annual Symposium entitled: "New Concrete Technology in Construction", 26-28 March 2007, Chesford Grange**

Marios Soutsos (Speaker)  
26 Mar 2007 → 28 Mar 2007

**Invitation by The Institute of Concrete Technology to present our research work on recycling, "New Materials and Innovations", Rugby – 17th February 2005.**

Marios Soutsos (Speaker)  
2005

**Rilem (External organisation)**

Marios Soutsos (Member)  
2004 → 2012

**Rilem (External organisation)**

Marios Soutsos (Member)  
2004 → 2007

**American Concrete Institute (External organisation)**

Marios Soutsos (Member)  
2003 → ...

**Institute of Concrete Technology, "Recycling – Cementing Concrete Solutions", Chatham Lodge, Lymm**

Marios Soutsos (Chair)  
03 Jul 2002

**"Profit from recycling" Conference, speech entitled "Precast concrete products made with recycled construction and demolition waste"**

Marios Soutsos (Invited speaker)  
18 Apr 2002

**The British In-situ Concrete Paving Association (External organisation)**

Marios Soutsos (Member)  
2002 → 2005

**Annual Meeting of the British Geological Society, entitled "Dielectric Properties of Concrete", Nottingham, UK**

Marios Soutsos (Invited speaker)  
Oct 2000

**British Institute organised Non-Destructive Testing International Conference "NDT in Civil Engineering", Liverpool, UK**

Marios Soutsos (Member of programme committee)  
08 Apr 1997 → 11 Apr 1997



### **Non-Destructive Testing International Conference (Invited Session Chair - NDT in Civil Engineering)**

Marios Soutsos (Session chair)

08 Apr 1997 → 11 Apr 1997

### **Engineering Structures (Journal)**

Marios Soutsos (Referee)

1995 → 2012

### **Journal of Materials in Civil Engineering (Journal)**

Marios Soutsos (Referee)

1995 → 2012

### **Journal of Nuclear Materials (Journal)**

Marios Soutsos (Referee)

1995 → 2012

### **Journal of Testing and Evaluation (Journal)**

Marios Soutsos (Referee)

1995 → 2012

### **Materials and Structures (Journal)**

Marios Soutsos (Referee)

1995 → 2012

### **Waste Management (Journal)**

Marios Soutsos (Referee)

1995 → 2012

## **Prizes**

**Elsevier Best Paper on Materials Award for paper entitled "The Effect of Temperature on the Rate of Strength Development of Mortar Mixes"**

Soutsos, Marios (Recipient), 2010

## **Awards**

### **Projects**

**R6568NBE: A Ductile, High Energy Absorptive and Rapid Post-tensioning System for Extending Life of Concrete Structures.**

Chen, J. F., Amato, G. & Soutsos, M.

12/05/2017 → ...

**R3785CIV: BanahCEM Phase II**

Soutsos, M., Nanukuttan, S. & Sha, W.

17/06/2016 → 31/07/2018

**R6538CIV: By-products for Building Materials**

Soutsos, M., Doherty, R. & Sha, W.

05/04/2016 → 24/04/2018

**R3581CIV: Development and Commercialisation of banahCEM Geopolymer Binder**

Cleland, D., Nanukuttan, S. & Soutsos, M.

13/12/2013 → 31/10/2016

**R5736CIV: Development of geopolymer cement**

Cleland, D., Nanukuttan, S. & Soutsos, M.  
01/08/2011 → ...

**R1650ARC: Global Challenges Workshop**

Selim, G., Chen, J. F. & Soutsos, M.  
29/07/2016 → 30/11/2016

**S2445CIV: KTP/ Creagh Concrete Products Limited**

Conway, G., Nanukuttan, S., Sha, W. & Soutsos, M.  
01/08/2018 → ...

**S2385CIV: KTP/ Virtus Concrete Solutions - Oct 2015**

Sha, W. & Soutsos, M.  
01/08/2015 → 31/12/2016

**S2358CIV: KTP/Banah UK**

Nanukuttan, S. & Soutsos, M.  
01/08/2013 → 28/02/2017

**S2386CIV: KTP/Creagh Concrete Products Ltd**

Chen, J. F., Nanukuttan, S., Robinson, D., Sha, W. & Soutsos, M.  
01/08/2015 → ...

**R3810NBE: Low Carbon Footprint Precast Concrete Products for an Energy Efficient Built Environment**

Soutsos, M., Chen, J. F., Cox, S., Long, A., Selim, G. & Sha, W.  
11/11/2016 → ...

**R2277CIV: Non-Conventional, Recyclable, Construction Materials for Infrastructure Renewal**

Chen, J. F. & Soutsos, M.  
04/04/2016 → 30/06/2016

**R1482CIV: Rational Design of Low-CO2 Alkali-activated Concretes for Eco-efficiency and Durability**

Nanukuttan, S. & Soutsos, M.  
10/11/2014 → 31/03/2018

**R1539CIV: REcovery and uSe of Cement kIN Dust as the alkali Activator for Geopolymeric (Cementless) Concrete Building Blocks**

Soutsos, M., Chen, J. F., Doherty, R. & Sha, W.  
10/07/2015 → 30/04/2018

**R3954NBE: Re-Use and Recycling of Decommissioned Composite Material Wind Turbine Blades**

McKinley, J., Niblock, C. & Soutsos, M.  
11/10/2017 → ...

**R6542CIV: Reuse and Recycling of Materials and Structures in Energy Efficient Prefabricated Elements for Building Refurbishment and Construction - RE4**

Soutsos, M. & Sha, W.  
29/07/2016 → ...

**R6372CIV: SUS-CON SUSTainable, innovative & energy-efficient CONcrete, based on the integration of all-waste materials**

Soutsos, M., Basheer, M. & Nanukuttan, S.  
01/08/2011 → 31/12/2015

**N/A**

2018	Lorem ipsum dolor sit amet
2017	Lorem ipsum dolor sit amet
2016	Lorem ipsum dolor sit amet
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