

Recent Publications – Research Institutes and Centres

BY MEMBERS OF THE STAFF AND BY RESEARCH STUDENTS WORKING UNDER THEIR SUPERVISION

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ADAPT Centre For Digital Content Technology

Debruyne, Christophe, 'Towards generating policy-compliant datasets', *13th IEEE international conference on semantic computing*, Long Beach, USA, IEEE Computer Society (2019), 199-203 [C. Debruyne, H.J. Pandit, D. Lewis, D. O'Sullivan]

'An ontology for representing and annotating data flows to facilitate compliance verification', *IEEE thirteen international conference on research challenges in information science*, Brussels, Belgium, IEEE (2019), 10-16 [C. Debruyne, J. Riggio, O. De Troyer, D. O'Sullivan]

'NAISC: an authoritative linked data interlinking approach for the library domain', *Joint Conference on Digital Libraries (JCDL)*, Urbana-Champaign, Illinois, USA, ACM/IEEE (2019), 220-228 [L. McKenna, C. Debruyne, D. O'Sullivan]

'Modelling the provenance of linked data interlinks for the library domain', *MEPDAW 2019: 5th workshop on managing the evolution and preservation of the data web, WWW '19 companion proceedings of the 2019 world wide web conference*, San Francisco, USA (2019), 954-958 [L. McKenna, C. Debruyne, D. O'Sullivan]

'GConsent - a consent ontology based on the GDPR', *16th European Semantic Web Conference (ESWC)*, Portoroz, Slovenia, Springer (2019), 270-282 [H.J. Pandit, C. Debruyne, D. O'Sullivan, D. Lewis]

'Using maps for interlinking geospatial linked data', *OTM conferences 2019*, Rhodes, Greece, Springer (2019), 209-226 [D. Roosens, K. McGlenn, C. Debruyne]

'Towards cataloguing potential derivations of personal data', *16th European Semantic Web Conference (ESWC)*, Portoroz, Slovenia (2019), <http://hdl.handle.net/2262/91574> [H.J. Pandit, J.D. Fernandez, C. Debruyne, A. Polleres]

'Standardisation, data interoperability, and GDPR', *Shaping the future through standardization*, eds K. Jakobs, IGI Global (2020), 199-255 [H.J. Pandit, C. Debruyne, D. O'Sullivan, D. Lewis]

Fatema, Kaniz, 'GDPRtEXT - GDPR as a linked data resource', *15th international Extended Semantic Web Conference (ESWC 2018)*, Heraklion (Crete, Greece), Springer LNCS (2018), 481-496 [H.J. Pandit, K. Fatema, D. O'Sullivan, D. Lewis]

Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN)

McEvoy, Niall, 'Defect sizing, separation, and substrate effects in ion-irradiated monolayer two-dimensional materials', *Physical Review B*, 98, 13 (2018), 134109 [P. Maguire, D.S. Fox, Y. Zhou (...), N. McEvoy *et al.*]

'Nonradiative energy transfer and photocurrent enhancements in hybrid quantum Dot-MoS₂ devices', *2018 20th International Conference on Transparent Optical Networks (ICTON)* (2018), 8473673 [J.J. Gough, N. McEvoy, M. O'Brien (...), G.S. Duesberg, A.L. Bradley]

'MoS₂ field-effect transistors by non-covalent functionalisation', *Nanoscale*, 10, 37 (2018), 17557-17566 [H. Kim, W. Kim, M. O'Brien (...), N. McEvoy *et al.*]

Recent publications – Research Institutes and Centres

- 'Exfoliation of 2D materials by high shear mixing', *2D Materials*, 6, 1 (2019), 015008 [S. Biccai, S. Barwich, D. Boland, A. Harvey, D. Hanlon, N. McEvoy, J.N. Coleman]
- 'Suppression of the shear Raman mode in defective bilayer MoS₂', *Journal of Applied Physics*, 125, 6 (2019), 064305 [P. Maguire, C. Downing, J. Jadwiszczak (...), N. McEvoy, H. Zhang]
- 'Dependence of photocurrent enhancements in hybrid quantum dot-MoS₂ devices on quantum dot emission wavelength', *ACS Photonics* (2019), 976-984 [J.J. Gough, N. McEvoy, M. O'Brien (...), G.S. Duesberg, A.L. Bradley]
- 'Growth of 1T' MoTe₂ by thermally assisted conversion of electrodeposited tellurium films', *ACS Applied Energy Materials*, 2, 1 (2019), 521-530 [J.B. Mc Manus]
- 'Additive-free MXene inks and direct printing of micro-supercapacitors', *Nature Communications*, 10, 1 (2019), <http://hdl.handle.net/2262/86844> [C.J. Zhang, L. McKeon, M.P. Kremer (...), Y. Gogotsi, V. Nicolosi]
- 'High capacity silicon anodes enabled by MXene viscous aqueous ink', *Nature Communications*, 10, 1 (2019), <http://hdl.handle.net/2262/86845> [C.J. Zhang, S-H. Park, S. Barwich, N. McEvoy, C.S. Boland, J.N. Coleman, Y. Gogotsi, V. Nicolosi]
- 'Few-Layer MoS₂/a-Si:H heterojunction pin-photodiodes for extended infrared detection', *ACS Photonics*, 6, 6 (2019), 1372-1378 [A. Bablich, D.S. Schneider, P. Kienitz (...), N. McEvoy *et al.*]
- 'Perforating freestanding molybdenum disulfide monolayers with highly charged ions', *Journal of Physical Chemistry Letters*, 10, 5 (2019), 904-910 [R. Kozubek, M. Tripathi, M. Ghorbani-Asl (...), N. McEvoy *et al.*]
- 'A WSe₂ vertical field emission transistor', *Nanoscale*, 11, 4 (2019), 1538-1548 [A. Di Bartolomeo, F. Urban, M. Passacantando (...), N. McEvoy *et al.*]
- 'Nonlinear optical signatures of the transition from semiconductor to semimetal in PtSe₂', *Laser and Photonics Reviews*, 1900052 (2019), <http://dx.doi.org/10.1002/lpor.201900052> [L. Wang, S. Zhang, N. McEvoy (...), L. Zhang, J. Wang]
- 'Ultrafast carrier dynamics and bandgap renormalization in layered PtSe₂', *Small*, 1902728 (2019), <http://dx.doi.org/10.1002/smll.201902728> [G. Wang, K. Wang, N. McEvoy (...), J. Wang, W.J. Blau]
- 'Environmental effects on the electrical characteristics of back-gated WSe₂ field-effect transistors', *Nanomaterials*, 8, 11 (2018), <http://hdl.handle.net/2262/89528> [F. Urban, N. Martucciello, L. Peters, N. McEvoy, A. Di Bartolomeo]
- Mir, Sajjad**, 'Review-recent advances in block-copolymer nanostructured subwavelength antireflective surfaces', *Journal of The Electrochemical Society*, 167 (2020), 037502 [S.H. Mir, G. Ryzdek, L.A. Nagahara, A. Khosla, P. Mokarian-Tabari]
- Mokarian, Parvaneh**, 'Review-organic-inorganic hybrid functional materials: an integrated platform for applied technologies', *Journal of The Electrochemical Society*, 165, 8 (2018), B3137-B3156 [S.H. Mir, L.A. Nagahara, T. Thundat, P. Mokarian-Tabari, H. Furukawa, A. Khosla]
- 'Highly ordered titanium dioxide nanostructures via a simple one-step vapor-inclusion method in block copolymer films', *ACS Applied Nano Materials* (2018), 3426 [E.C. Giraud, P. Mokarian-Tabari, D. T.W. Toolan (...), P.D. Topham, M. A. Morris]
- 'pH-responsive saloplastics based on weak polyelectrolytes: from molecular processes to material scale properties', *Macromolecules*, 51, 12 (2018), 4424-4434 [G. Ryzdek, A. Pakdel, A. Witecka, S.D.N. Awang, V. Nicolosi, P. Mokarian-Tabari, P. Schaaf, F. Boulmedais, K. Ariga]
- 'Application of mean-field theory to the spin casting of polystyrene and poly(methyl methacrylate) blend films from toluene', *Polymer*, 178 (2019), 121578 [Y. Mouhamad, P. Mokarian-Tabari, R.A.L. Jones, M. Geoghegan]

Recent publications – Research Institutes and Centres

Padamati, Ramesh, 'Comparison of wet milling and dry milling routes for ibuprofen pharmaceutical crystals and their impact on pharmaceutical and biopharmaceutical properties', *Powder Technology*, 330 (2018), 228-238 [D. Kumar, Z.A. Worku, Y. Gao, V.K. Kamaraju, B. Glennon, R.P. Babu, A.M. Healy]

'Biodegradable plastic blends create new possibilities for end-of-life management of plastics but they are not a panacea for plastic pollution', *Environmental Science and Technology*, 52, 18 (2018), 10441-10452 [T. Narancic, S. Verstichel, S. Reddy Chaganti, L. Morales-Gamez, S.T. Kenny, B. De Wilde, R.B. Padamati, K.E. O'Connor]

'Production of bacterial nanocellulose (BNC) and its application as a solid support in transition metal catalysed cross-coupling reactions', *International Journal of Biological Macromolecules*, 129 (2019), 351-360 [S. Jeremic, L. Djokic, R. Babu Padamati, R. Senthamaraikannan, O. Rojas, I. Osenica, J. Nikodinovic-Runic]

'Advanced separation processes for recovery of critical raw materials from renewable and waste resources', *Reference Module in Materials Science and Materials Engineering*, eds S. Hashmi *et al.*, Elsevier (2019), [1-9] [S. Rameshkumar, M. Pednekar, T. Saratchandra, J.J. Doyle, R. Babu Padamati]

Rafferty, Aran, 'Adverse effects of nanosilver on human health and the environment', *Acta Biomaterialia*, 94 (2019), 145-159 [E. Rezvani, A. Rafferty, C. McGuinness, J. Kennedy]

'An investigation of open, interconnected porosity in 3D-printed alumina', *Ceramics in Modern Technologies*, 2 (2019), 145-151 [A. Rafferty, A. Conway, T. Woods, Y. Gun'ko, J. Kennedy, R. Coull]

Rameshkumar, Saranya, 'Advanced separation processes for recovery of critical raw materials from renewable and waste resources', *Reference module in materials science and materials engineering*, eds S. Hashmi *et al.*, Elsevier (2019), [1-9] [S. Rameshkumar, M. Pednekar, T. Saratchandra, J.J. Doyle, R. Babu Padamati]

CONNECT

Dey, Indrakshi, 'Throughput analysis for virtual MIMO WSNs over measured MIMO channels', *IEEE Transactions on Instrumentation and Measurement* (2018), 297-299 [I. Dey, M. Majid Butt, N. Marchetti]

'Compact full-duplex amplify-and-forward relay design for 5G applications', *IEEE PIMRC 2018* (2018), <http://hdl.handle.net/2262/91187> [I. Dey, Z. Zhao, M. Majid Butt, N. Marchetti]

Roddy, Stephen, 'Mapping for meaning: the embodied sonification listening model and its implications for the mapping problem in sonic information design', *Journal on Multimodal User Interfaces* (2020), <http://dx.doi.org/10.1007/s12193-020-00318-y> [S. Roddy, B. Bridges]

Counselling

O'Connor, Tamara, 'Effect of deinstitutionalisation for adults with intellectual disabilities on costs: a systematic review', *BMJ Open*, 9, 9 (2019), e025736 [P. May, V. Lombard, R. Vance (...), V. Smith, M. McCarron]

Trinity College Institute of Neuroscience (TCIN)

Doherty, Colin, 'Patients with epilepsy care experiences: comparison between services with and without an epilepsy specialist nurse', *Epilepsy and Behavior*, 85 (2018), 85-94 [A. Higgins, C. Downes, J. Varley, E. Tyrell, C. Normand, C. Doherty, C. Begley, N. Elliott]

'Rising to the challenge: epilepsy specialist nurses as leaders of service improvements and change (SENSE study)', *Seizure: European Journal of Epilepsy*, 63 (2018), 40-47 [A. Higgins, C. Downes, J. Varley, C.P. Doherty, C. Begley, N. Elliott]

Recent publications – Research Institutes and Centres

- 'Genome-wide mega-analysis identifies 16 loci and highlights diverse biological mechanisms in the common epilepsies', *Nature Communications*, 9, 1 (2018), 5269
- 'Extracranial and intracranial vasculopathy with 'moyamoya phenomenon' in association with Alagille syndrome', *Frontiers in Neurology*, 9 (2019), 1194 [S. Delaney, G. O'Connor, W. Reardon (...), C.P. Doherty *et al.*]
- 'The rhetoric and reality of integrated patient-centered care for healthcare providers: an ethnographic exploration of epilepsy care in Ireland', *Epilepsy and Behavior*, 94 (2019), 87-92 [J.-P. Byrne, R. Power, R. Kiersey, J. Varley, C.P. Doherty, A.J. Saris, V. Lambert, M. Fitzsimons]
- 'Normal cerebral cortical thickness in first-degree relatives of temporal lobe epilepsy patients', *Neurology*, 92, 4 (2019), E351-E358 [S. Alhusaini, M.A. Kowalczyk, C.L. Yasuda (...), C.P. Doherty *et al.*]
- 'Eslicarbazepine acetate in epilepsy patients with psychiatric comorbidities and intellectual disability: clinical practice findings from the Euro-Esli study', *Journal of the Neurological Sciences*, 402 (2019), 88-99 [C.P. Doherty, S. Rheims, G. Assenza, G. Boero, J. Chaves, R. McMurray, V. Villanueva]
- 'Mapping cortical brain asymmetry in 17,141 healthy individuals worldwide via the ENIGMA consortium', *Proceedings of the National Academy of Sciences of the United States of America*, 115, 22 (2018), E5154-E5163 [X.Z. Kong, S.R. Mathias, T. Guadalupe (...), M. Hedberg, F. Orhan]
- 'Using neuroimaging to detect covert awareness and determine prognosis of comatose patients: informing surrogate decision-makers of individual patient results', *Seminars in Neurology*, 38, 5 (2018), 555-560 [M. Graham, C. Doherty, L. Naci]
- 'Neuropathology as a result of severe traumatic brain injury?', *Clinical Neuropathology* (2019), 14-22 [C.P. Doherty, E. O'Keefe, J. Keaney, B.A. Lawlor, R.F. Coen, M. Farrell, M. Campbell]
- Finucane, Orla**, 'The NLRP3 inflammasome modulates glycolysis by increasing PFKFB3 in an IL-1 β -dependent manner in macrophages', *Scientific Reports*, 9, 1 (2019), <http://hdl.handle.net/2262/89983> [O.M. Finucane, J. Sugrue, A. Rubio-Araiz, M.-V. Guillot-Sestier, M.A. Lynch]
- Kerskens, Christian**, 'Iron accumulation in microglia triggers a cascade of events that leads to altered metabolism and compromised function in APP/PS1 mice', *Brain Pathology* (2019), 10.1111/bpa.12704. [A. McIntosh, V. Mela, C. Harty, A.M. Minogue, D.A. Costello, C. Kerskens, M.A. Lynch]
- Rode, Karsten**, 'Magnetocrystalline anisotropy and exchange probed by high-field anomalous Hall effect in fully compensated half-metallic Mn₂Ru_xGa thin films', *Physical Review B*, 98 (2018), 220406 (R) [C. Fowley, K. Rode, Y.-C. Lau (...), J.M.D. Coey, A.M. Deac]
- 'Antiferromagnetic single-layer spin-orbit torque oscillators', *Physical Review B*, 99 (2019), 054433-1-054433-8 [R.E. Troncoso, K. Rode, P. Stamenov, J.M.D. Coey, A. Brataas]
- 'Effect of insertion layer on electrode properties in magnetic tunnel junctions with a zero-moment half-metal', *Scientific Reports*, 9, 1 (2019), 4020-1-4020-8 [A. Titova, C. Fowley, E. Clifford (...), K. Rode *et al.*]
- 'Fermi level engineering of Mn₂Ru_xGa thin films', *IEEE 18th international conference on nanotechnology (IEEE-NANO)* (2019), <http://dx.doi.org/10.1109/NANO.2018.8626371> [K.E. Siewierska, G. Atcheson, A. Jha (...), J.M.D. Coey, K. Rode]
- Ruddy, Kathy**, 'Stop-signal reaction time correlates with a compensatory balance response', *Gait and Posture*, 71 (2019), 273-278 [G. Rydalch, H.B. Bell, K.L. Ruddy, D.A.E. Bolton]
- 'Uncertainty in contextual and kinematic cues jointly modulates motor resonance in primary motor cortex', *Journal of Neurophysiology*, 121, 4 (2019), 1451-1464 [A.L. Cretu, K. Ruddy, M. Germann, N. Wenderoth]

Recent publications – Research Institutes and Centres

Trinity Translational Medicine Institute (TTMI)

Movia, Dania, 'Cadmium nanoparticles citrullinate cytokeratins within lung epithelial cells: cadmium as a potential cause of citrullination in chronic obstructive pulmonary disease', *International Journal of Chronic Obstructive Pulmonary Disease*, 13 (2018), 441-449 [D. Hutchinson, J. Muller, J.E. McCarthy (...), D. Movia *et al.*]

'Nanotoxicity in cancer research: technical protocols and tips considerations for the use of 3D tumour spheroids', *Unraveling the safety profile of nanoscale particles and materials - from biomedical to environmental applications*, eds F. de Castro Gomes Andreia, S. Pereira Passos Marisa, InTech (2018), <http://hdl.handle.net/2262/91802> [D. Movia, A. Prina-Mello]

'Multilayered cultures of NSCLC cells grown at the air-liquid interface allow the efficacy testing of inhaled anti-cancer drugs', *Scientific Reports* (2018), 12920 [A. Prina-Mello, D. Movia, D. Bazou, Y. Volkov, A. Prina-Mello]

'A protein corona study by scattering correlation spectroscopy: a comparative study between spherical and urchin-shaped gold nanoparticles', *Nanoscale*, 11, 8 (2019), 3665-3673 [H. Moustaooui, J. Saber, I. Djeddi, Q. Liu, D. Movia, A. Prina-Mello, J. Spadavecchia, M. Lamy de la Chapelle, N. Djaker]

Library

Bioletti, Susan, 'Egyptian papyri. The conservation of Ptolemaic papyri at Trinity College Dublin', *Journal of Paper Conservation*, 19, 4 (2019), 144-153 [L. Buttle, C. Neligan, S. Bioletti]

Boran, Elizabethann, 'Letters', *Reassembling the republic of letters in the digital age. Standards, Systems, Scholarship*, eds H. Hotson, T. Wallnig, Goettingen, Goettingen University Press (2019), 57-78 [E. Boran *et al.*]

'Assembling Metadata', *Reassembling the republic of letters in the digital age. Standards, systems, scholarship*, eds H. Hotson, T. Thomas Wallnig, Goettingen, Goettingen University Press (2019), 193-222 [D. van Miert, E. Boran]

'Collecting medicine in early eighteenth-century Dublin: the library of Edward Worth', *Early Modern Ireland and the world of medicine. Practitioners, collectors and contexts*, eds J. Cunningham, Manchester, Manchester University Press (2019), 165-187 [E. Boran]

Brennan, Niamh, 'Measuring research in the university via senior academic promotions and faculty research metrics', *CRIS2018*, Umea, Sweden (2018), <http://hdl.handle.net/2262/85322> [K. Kiely, N. Brennan, A. Hayes]

'Measuring research in the university via senior academic promotions and faculty research metrics', *Procedia Computer Science*, 146 (2019), 173-181 [K. Kiely, N. Brennan, A. Hayes]

Eustace-Cook, Jessica, 'Children's complex care needs: a systematic concept analysis of multidisciplinary language', *European Journal of Pediatrics*, 177, 11 (2018), 1641-1652 [M. Brenner, C. Kidston, C. Hilliard, I. Coyne, J. Eustace-Cooke, C. Doyle, T. Begley, M.J. Barrett]

'Youths with asthma and their experiences of self-management education: a qualitative systematic review protocol', *JBI Database of Systematic Reviews and Implementation Reports*, 17, 5 (2019), 675-681 [K. McTague, G. Prizeman, S. Shelley, J. Eustace-Cook, E. McCann]

'Medication management in intellectual disability settings: a systematic review', *Journal of Intellectual Disabilities* (2019), <https://doi.org/10.1177/1744629519886184> [F. Sheerin, J. Eustace-Cook, F. Wuytack, C. Doyle]

'End of life in acute hospital settings - a systematic review of families' experience of spiritual care', *Journal of Clinical Nursing* (2019), 31 [N. Hennessy, K. Neenan, V. Brady, M. Sullivan, J. Eustace-Cook, F. Timmins]

Recent publications – Research Institutes and Centres

- 'Scoping review of factors influencing the implementation of group psychoeducation initiatives for people experiencing mental health difficulties and their families', *Journal of Mental Health* (2020), <https://doi.org/10.1080/09638237.2020.1714002> [A. Higgins, P. Gibbons, C. Downes, L. Doyle, D. Hevey, M. Monahan, T. Kroll, J. Barry, J. Eustace-Cook, R. Murphy]
- 'The effectiveness and characteristics of pregnancy yoga interventions: a systematic review', *HRB Open Research*, 2 (2020), 1 [L. Corrigan, J. Eustace-Cook, P. Moran, D. Daly]
- 'The effectiveness and characteristics of pregnancy yoga interventions: a systematic review protocol', *HRB Open Research*, 2 (2019), 1 [L. Corrigan, J. Eustace-Cook, P. Moran, D. Daly]
- Mockler, David**, 'Smoking cessation programmes for women living in disadvantaged communities, 'we can quit 2': a systematic review protocol', *HRB Open Access*, 2, 10 (2019), <https://doi.org/10.12688/hrbopenres.12901.1> [E. Burke, F. Dobbie, N. Dougall (...), D. Mockler *et al.*]
- 'Non-pharmacological interventions for cognition in patients with type 2 diabetes mellitus: a systematic review', *Quarterly Journal Medicine* (2019), <http://dx.doi.org/10.1093/qjmed/hcz053> [A.H. Dyer, R. Briggs, D. Mockler, J. Gibney, S.P. Kennelly]
- 'Clinical classification and severity scoring systems in chronic pancreatitis: a systematic review', *Digestive Surgery* (2019), 1-11 [A. Rahman, D.B. O'Connor, F. Gather (...), D. Mockler *et al.*]
- 'Risk prediction models for familial breast cancer', *Cochrane Database of Systematic Reviews* (2018), <http://dx.doi.org/10.1002/14651858.CD013185> [S.A. McGarrigle, Y.P. Hanhauser, D. Mockler, D.J. Gallagher, M.J. Kennedy, K. Bennett, E.M. Connolly]
- 'A systematic review of serum biomarkers in neonatal encephalopathy to predict short term outcome', *Archive of Disease in Childhood*, 104, Suppl 3 (2019), A25 [M. O'Dea, T. Hurley, D. Mockler, K. Kyng, B. Phillips, M. Eleanor]
- 'Evaluation of perinatal development of offspring born to mothers with gestational diabetes', *Arch Dis Child*, 104, Suppl 3 (2019), A25 [I. Nikitina, A. Masel, E. Kaprior, D. Yuablunovskaya, I. Kelmanson]
- 'Sarcopenia is highly prevalent and associated with poorer outcomes in pancreatic and oesophagogastric cancer: systematic review and meta-analysis', *Mesentery and Peritoneum*, 2 (2018), AB025-AB025 [D.B. O'Connor, J. Hartnet, Y. Bashir, D. Mockler, O. Griffin, S.N. Duggan, K.C. Conlon]
- 'Physical function in patients with resectable cancer of the pancreas and liver - a systematic review', *Journal of Cancer Survivorship* (2020), <https://doi.org/10.1007/s11764-020-00875-x> [L. O'Neill, S. Reynolds, G. Sheill, E. Guinan, D. Mockler, J. Geoghegan, K. Conlon, J.V. Reynolds, J. Hussey]
- Rankin, Kieran**, 'The North Atlantic fish revolution, c. AD 1500', *Quaternary Research* (2019), 1-15 [P. Holm, F. Ludlow, C. Scherer (...), K.J. Rankin *et al.*]
- 'Cartographical perspectives on the evolution of fisheries in Newfoundland's Grand Banks area and adjacent north Atlantic waters in the sixteenth and seventeenth centuries', *Terrae Incognitae*, 51, 3 (2019), 190-218 [K.J. Rankin; P. Holm]
- Sheaf, Greg**, 'Telephone interventions, delivered by healthcare professionals, for providing education and psychosocial support for informal caregivers of adults with diagnosed illnesses', *Cochrane Database of Systematic Reviews*, 5 (2019), <https://doi:10.1002/14651858.CD012533.pub2> [M. Corry, K. Neenan, S. Brabyn, G. Sheaf, V. Smith]

Administrative, executive and other officers

- Kiely, Kevin**, 'Measuring research in the university via senior academic promotions and faculty research metrics', *CRIS2018*, Umea, Sweden (2018), <http://hdl.handle.net/2262/85322> [K. Kiely, N. Brennan, A. Hayes]