

## Louis C. Morrill: CV & Publications List (Updated September 2023)

**Group Webpages:** <https://blogs.cardiff.ac.uk/themorrillgroup/>

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**Contact Details:** [MorrillLC@cardiff.ac.uk](mailto:MorrillLC@cardiff.ac.uk), 029208 75840

**Date of Birth:** 22<sup>nd</sup> May 1987, Wick, UK

### Summary of Education & Career:

From 07/2024 Reader in Organic Chemistry, University of Bath, UK  
08/2018 – Present Senior Lecturer in Synthetic Organic Chemistry, Cardiff University, UK  
06/2015 – 07/2018 University Research Fellow in Synthetic Organic Chemistry, Cardiff University, UK  
06/2014 – 06/2015 Postdoctoral Research Associate in Synthetic Organic Chemistry, UC Berkeley, USA  
10/2010 – 06/2014 PhD in Organic Chemistry and Catalysis, University of St Andrews, UK  
10/2005 – 06/2010 MChem (Hons) 1<sup>st</sup> Class, Chemistry with Industrial Experience, University of St Andrews, UK

### Research Area Summary:

Research in the Morrill group is focused on inventing new reactions in organic chemistry and developing sustainable catalytic methodologies for synthesis. The utility and impact of our research will ultimately be exemplified through its application in the total synthesis of natural products and molecules of biological significance.

### Core Research Areas:

- Synthetic organic electrochemistry
- Borrowing hydrogen catalysis
- Main group catalysis (in collaboration with Dr Rebecca Melen)
- Cyanamide chemistry (in collaboration with Syngenta)

### Collaborations:

- Organic mechanochemistry (collaboration led by Dr Duncan Browne)
- Organocatalytic artificial enzymes (collaboration led by Dr Louis Luk)

### Current Research Group Members:

- 1 x Postdoctoral research associate
- 7 x PhD students

### Former Group Members:

- 4 x Postdoctoral research associates
- 10 x PhD students
- 3 x Catalysis CDT research sabbatical students
- 35 x Final-year BSc/MSc/MChem project students
- 10 x Cardiff undergraduate internship students
- 7 x International visiting students

### Research Grant Income:

Attracted ~£1.2M of external funding (~£924k as PI/Host) to support 5 postdoctoral research associates (EPSRC, Leverhulme Trust, Royal Society, HEC), 5 PhD studentships (KESS 2, AstraZeneca iCASE, Schlumberger Foundation, British Council) and multiple undergraduate research students (RSC, IBCarb, RISE) since becoming PI at Cardiff University (06/2015). Selected external funding includes:

- 2023-2027, AstraZeneca CASE Award  
£29,400 (Morrill as PI, 1 x 3.5-year PhD studentship and consumables)
- 2023-2024, The Higher Education Commission Postdoctoral Fellowship  
£17,000 (Maqbool as Fellow, Morrill as Host, 1 x 12-month postdoctoral research associate)
- 2020-2024, Newton-Mosharafa Fund, British Council  
£75,000 (Elsherbeni as Scholar, Morrill as Host, 1 x 4-year PhD studentship and consumables)
- 2019-2023, AstraZeneca CASE Award  
£29,400 (Morrill as PI, 1 x 3.5-year PhD studentship and consumables)
- 2019-2022, Schlumberger Foundation Faculty for the Future Scholarship  
£86,850 (Kustiana as Scholar, Morrill as Host, 1 x 3-year PhD studentship and consumables)

- 2019-2021, The Royal Society Newton International Fellowship (NIF\R1\180099) £100,500 (Verma as Fellow, Morrill as Host, 1 x 2-year postdoctoral research associate, equipment and consumables)
- 2018-2021, KESS 2 Knowledge Economy Skills Scholarships £49,873 (Browne as PI, Morrill as Col, 1 x 3-year PhD studentship and consumables)
- 2017-2020, EPSRC Standard Research Grant (EP/R006504/1) £395,968 (Morrill as PI, Browne and Wirth as Col, 1 x 3-year postdoctoral research associate, equipment, consumables and funds for conference organisation on enabling technologies)
- 2017-2020, The Leverhulme Trust Research Project Grant (RPG-2017-195) £179,600 (Luk as PI, Morrill as Col, 1 x 3-year postdoctoral research associate and consumables)
- 2016-2019, The Leverhulme Trust Research Project Grant (RPG-2015-361) £175,992 (Morrill as PI, Melen as Col, 1 x 3-year postdoctoral research associate and consumables)
- 2016-2021, Various undergraduate studentships (RSC, IBCarb, RISE) £6,100 (Morrill as PI or Col, stipends for 2-3 month undergraduate student placements)
- 2016-2017, The Royal Society Research Grant (RG150466) £11,665 (Morrill as PI, Chiral HPLC columns for analysis of scalemic mixtures)

#### Recognition:

- 2022 RSC Hickinbottom Award
- 2017-2023, Nominated for Cardiff University Enriching Student Life Awards – Most Engaging Staff Member (2023), Most Uplifting Staff Member (2018, 2022), Personal Tutor of the Year (2018, 2019), Most Effective Teacher (2017).
- 2010-2014, Carnegie Trust PhD Studentship
- 2012, Syngenta Postgraduate Scholarship
- 2010, Miller Prize for “Highest Achieving Student in the Faculty of Science”, University of St Andrews
- 2010, Irvine Jubilee Prize for “Highest Achieving Student in Honours Chemistry”, University of St Andrews
- 2010, F. D. Gunstone Prize for “Best MChem Organic Chemistry Project”, University of St Andrews

#### Teaching:

- Module coordinator of 1<sup>st</sup> year organic chemistry
- 1<sup>st</sup> year organic chemistry: *Substitution and Elimination Reactions* (\*New Course\*, 8 lectures)
- 2<sup>nd</sup> year organic chemistry: *Carbonyl and Alkene Chemistry* (\*New Course\*, 8 lectures)
- Lead academic laboratory demonstrator for 2<sup>nd</sup> year organic chemistry
- Final-year/taught postgraduate organic chemistry: *Organocatalysis* (\*New Course\*, 6 lectures)
- MRes Catalysis CDT: *Organocatalysis* (\*New Course\*, 3-hour workshop)
- MChem and BSc final-year undergraduate research project supervisor
- Tutorial support for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year organic chemistry courses
- Industrial placement/year abroad supervisor for undergraduate students

#### Administration and other positions of responsibility:

- Appointed member of the RSC Organic Division Council (2021-2024)
- Member of working panel to restructure the undergraduate organic chemistry course at Cardiff University (years 1-4)
- Personal tutor for undergraduate and postgraduate students
- Molecular Synthesis section representative on the Safety Committee, School Seminar Programme Committee, Learning & Teaching Committee and the Cardiff Chemistry Conference Committee
- Lead academic organiser for the annual Cardiff International Summer School
- Lead organiser of the Molecular Synthesis Seminar Series
- Grant peer reviewer for EPSRC, MRC, ANR and FWF
- Publication peer reviewer for various journals including *Science*, *J. Am. Chem. Soc.*, *Angewandte Chemie*, *ACS Catal.*, *Nat. Catal.*, *ChemSusChem.*, *Org. Lett.*, *Chem. Commun.* and *Adv. Synth. Catal.*
- Regular participation in school open days and UCAS days
- Served as external examiner (PhD = 10, MSc = 2), internal examiner (PhD = 9, MPhil = 3) and chair (PhD = 5)

#### Invited Lectures

54. Hickinbottom Award Lecture, University of Cambridge, UK, Date TBC.

53. Hickinbottom Award Lecture, University of Bath, UK, Date TBC.
52. 29th SCI Annual Review Meeting, London, UK, 6th December 2023.
51. Departmental Seminar, University of Sheffield, UK, 22nd November 2023.
50. Departmental Seminar, Queen's University Belfast, UK, 18th October 2023.
49. Departmental Seminar, Technical University of Denmark, Denmark, 28th September 2023.
48. Gregynog Synthesis Workshop, Newtown, UK, 6-8th September 2023.
47. EuChemS Division of Organic Chemistry Young Investigator Workshop, Leuven, Belgium, 7th July 2023.
46. Departmental Seminar, University of Warwick, UK, 14th June 2023.
45. Hickinbottom Award Lecture, University of St Andrews, UK, 24th May, 2023.
44. Hickinbottom Award Plenary Lecture, RSC Organic South West Regional Meeting, University of Reading, UK, 17th May, 2023.
43. Plenary Lecture, Bristol Electrosynthesis Meeting, University of Bristol, UK, 3rd April 2023.
42. Departmental Seminar, Université de Lyon, France, 30th March 2023.
41. Oxford Pfizer Symposium, University of Oxford, UK, 23rd February 2023.
40. Departmental Seminar, University of Nottingham, UK, 6<sup>th</sup> December 2022.
39. New Frontiers in Synthetic Chemistry 2020, Virtual Symposium, 11<sup>th</sup> November 2020.
38. Webinar Series, Hosted by AstraZeneca, 10<sup>th</sup> November 2020.
37. Webinar Series, Hosted by Syngenta, 8<sup>th</sup> July 2020.
36. Electrosynthesis Webinar Series, Hosted by IKA, 27<sup>th</sup> May 2020.
35. Departmental Seminar, University of Leicester, UK, 6<sup>th</sup> November 2019.
34. Gregynog Synthesis Workshop, Newtown, UK, 11-13<sup>th</sup> September 2019.
33. DaM Annual Meeting, University of York, UK, , 4<sup>th</sup> July 2019.
32. CDT Catalysis Annual Conference, Cardiff University, UK, 5<sup>th</sup> June 2019.
31. Departmental Seminar, Imperial College London, UK, 29<sup>th</sup> January 2019.
30. Departmental Seminar, GSK, Stevenage, UK, 13<sup>th</sup> December 2018.
29. Departmental Seminar, Nottingham University, UK, 14<sup>th</sup> November 2018.
28. Departmental Seminar, Nottingham Trent University, UK, 7<sup>th</sup> November 2018.
27. Gregynog Synthesis Workshop, Newtown, UK, 12-14<sup>th</sup> September 2018.
26. UNICAMP International Research Workshop, Campinas, Brazil, 5-9<sup>th</sup> March 2018.
25. Departmental Seminar, Technische Universität Berlin, Germany, 16<sup>th</sup> February 2018.
24. RSC Organic Division South West Regional Meeting, University of Bristol, UK, 17<sup>th</sup> January 2018.
23. Departmental Seminar, Queen Mary University of London, UK, 3<sup>rd</sup> November 2017.
22. Xiamen International Workshop, Xiamen, China, 18-22<sup>nd</sup> September 2017.
21. Gregynog Synthesis Workshop, Newtown, UK, 13-15<sup>th</sup> September 2017.
20. Enabling Technologies for Synthesis DaM Event, Loughborough University, UK, 4-5<sup>th</sup> September 2017.
19. Departmental Seminar, University of Manchester, UK, 23<sup>rd</sup> June 2017.
18. Supporting Synthesis & Self-Assembly DaM ECR Event, Liverpool, UK, 19-20<sup>th</sup> June 2017.
17. 253<sup>rd</sup> ACS National Meeting & Exposition, San Francisco, USA, 4<sup>th</sup> April 2017.
16. 253<sup>rd</sup> ACS National Meeting & Exposition, San Francisco, USA, 3<sup>rd</sup> April 2017.
15. Departmental Seminar, Theravance Biopharma, San Francisco, USA, 31<sup>st</sup> March 2017.
14. Departmental Seminar, Aarhus University, Denmark, 23<sup>rd</sup> February 2017.
13. 15<sup>th</sup> Cardiff Chemistry Conference, Cardiff University, UK, 10<sup>th</sup> May 2016.
12. 3<sup>rd</sup> Molecular Synthesis Section Meeting, Cardiff University, UK, 14<sup>th</sup> April 2016.
11. Gregynog Synthesis Workshop, Newtown, UK, 9-11th September 2015.
10. IX J-NOST Conference, IISER Bhopal, India, 4-6th December 2013.
9. Final Year PhD Symposium, University of St Andrews, UK, 5th September 2013.
8. 23rd International Symposium: Synthesis in Organic Chemistry, Oxford University, UK, 22-25th July 2013.
7. 14th Tetrahedron Conference, Vienna, Austria, 25-28th June 2013.
6. 24th Regional Postgraduate Symposia on Organic Chemistry, Dundee University, UK, 16th April 2013.
5. 41st RSC Scottish Regional Organic Division Meeting, St Andrews University, UK, 12th December 2012.
4. Syngenta Postgraduate Scholarship Awards Meeting, Bracknell, UK, 11th December 2012.
3. RSC Organic Division Poster Symposium, Burlington House, London, UK, 3rd December 2012.
2. ISACS7: Challenges in Organic Chemistry, Edinburgh University, UK, 12-15th June 2012.
1. Lilly Organic Chemistry Postgraduate Prize Day, Erl Wood Manor, Windlesham, UK, 3rd October 2011.

#### Published Work:

Total citations ~2.7k; average citations per paper = 44; papers cited >50 times = 16; H-index = 28.  
Independent and Collaborative Publications (Cardiff University):

60. "Recent Advances in Catalysis using Organoborane Mediated Hydride Abstraction", J. P. Gillions, S. A. Elsherbeni, L. Winfrey, L. Yun, R. L. Melen\*, L. C. Morrill\* and A. P. Pulis\*, *Synlett*, 2023, DOI: 10.1055/a-2111-9629. [Invited contribution to celebrate the 60th anniversary of the Matteson homologation] [Highlighted in the 14th EuCheMS Young Investigators Workshop Special Issue]. (Citations = 0)

59. "Nickel-Catalyzed Intramolecular Alkene Difunctionalization by Ball-Milling", M. T. J. Williams, L. C. Morrill\* and D. L. Browne\*, *Adv. Synth. Catal.*, 2023, **365**, 1477-1484. [Hot Topic: Earth-Abundant Transition Metal Catalysis]. (Citations = 0)
58. "Electrochemical Generation and Utilization of Alkoxy Radicals", Albara, A. M. A. El Gehani, Hussain A. Maashi, James Harnedy and L. C. Morrill\*, *Chem. Commun.*, 2023, **59**, 3655-3644. [Part of themed collection: Chemical Communications Hot Articles 2023] (Citations = 0)
57. "Deconstructive Functionalization of Unstrained Cycloalkanols via Electrochemically-Generated Aromatic Radical Cations", James Harnedy, Hussain A. Maashi, Albara, A. M. A. El Gehani, Matthew Burns and L. C. Morrill\*, *Org. Lett.*, 2023, **25**, 1486-1490. (Citations = 0)
56. "One-Pot Synthesis of Styrene Derivatives from Allyl Silanes via B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>-Catalyzed Isomerization – Hiyama Coupling", Betty A. Kustiana, Rebecca L. Melen, and L. C. Morrill\*, *Org. Lett.*, 2022, **24**, 8694-8697. [Highlighted in Chemistry Views] (Citations = 1)
55. "Mechanical Activation of Zero-Valent Metal Reductants for Nickel-Catalyzed Cross-Electrophile Coupling", Andrew C. Jones<sup>†</sup>, Matthew, T. J. Williams<sup>†</sup>, L. C. Morrill\*, and Duncan L. Browne\*, *ACS Catal.*, 2022, **12**, 13681-13689. (Citations = 10)
54. "B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>-Catalyzed (E)-Selective Isomerization of Alkenes", Betty A. Kustiana, Salma A. Elsherbeni, Thomas G. Linford-Wood, Rebecca L. Melen, Matthew N. Grayson and L. C. Morrill\*, *Chem. Eur. J.*, 2022, **28**, e202202454. (Citations = 2)
53. "Electrochemical Alkene Azidocyanation via 1,4-Nitrile Migration", Alex C. Seastram, Mishra Deepak Hareram, Thomas M. B. Knight and L. C. Morrill\*, *Chem. Commun.*, 2022, **58**, 8658-8662. (Citations = 6)
52. "Electrochemical Deconstructive Functionalization of Cycloalkanols via Alkoxy Radicals Enabled by Proton-Coupled Electron Transfer?", Mishra Deepak Hareram, Albara A. M. A. El Gehani, James Harnedy, Alex C. Seastram, Andrew C. Jones, Matthew Burns, Thomas Wirth, Duncan L. Browne and L. C. Morrill\*, *Org. Lett.*, 2022, **24**, 3890-3895. (Citations = 4)
51. "Mechanochemical Organocatalysis: Do High Enantioselectivities Contradict what we Might Expect?", M. T. J. Williams, L. C. Morrill\* and D. L. Browne\*, *ChemSusChem*, 2022, **15**, e202102157. (Citations = 13)
50. "The Role of Streptavidin and its Variants in Catalysis by Biotinylated Secondary Amines", A. R. Nödling, N. Santi, R. Castillo, M. Lipka-Lloyd, Y. Jin, L. C. Morrill, K. Swiderek\*, V. Moliner\* and L. Y. P. Luk\*, *Org. Biomol. Chem.*, 2021, **19**, 10424-10431. (Citations = 1)
49. "Electrochemical oxidative Z-selective C(sp<sup>2</sup>)-H chlorination of acrylamides", J. Harnedy, M. D. Hareram, G. J. Tizzard, S. J. Coles and L. C. Morrill\*, *Chem. Commun.*, 2021, **57**, 12643-12646. [Invited contribution to the 2021 Emerging Investigators themed collection]. (Citations = 7)
48. "Ball Milling Enabled Reactivity of Manganese Metal", W. I. Nicholson, J. L. Howard, G. Magri, A. C. Seastram, A. Khan, R. R. A. Bolt, L. C. Morrill, E. Richards and D. L. Browne\*, *Angew. Chem. Int. Ed.*, 2021, **60**, 23128-23133. (Citations = 23)
47. "Borrowing Hydrogen for Organic Synthesis", B. G. Reed-Berendt,<sup>†</sup> D. E. Latham,<sup>†</sup> M. B. Dambatta and L. C. Morrill\*, *ACS Cent. Sci.*, 2021, **7**, 570-585. (Citations = 144)
46. "Electron deficient borane-mediate hydrogen abstraction in amines: stoichiometric and catalytic processes", S. Basak, L. Winfrey, B. A. Kustiana, R. L. Melen\*, L. C. Morrill\* and A. P. Pulis, *Chem. Soc. Rev.*, 2021, **50**, 3720-3737. (Citations = 45)
45. "Transfer Hydrogenations Catalyzed by Steptavidin-hosted Secondary Amine Organocatalyst", N. Santi, L. C. Morrill, K. Swiderek, V. Moliner and L. Y. P. Luk\*, *Chem. Commun.*, 2021, **57**, 1919-1922. (Citations = 13)
44. "Expedient Organocatalysis Aza-Morita-Baylis-Hillman Reaction Through Ball-Milling", M. T. J. Williams, L. C. Morrill\* and D. L. Browne\*, *ACS Sustainable Chem. Eng.*, 2020, **8**, 17876-17781. (Citations = 22)
43. "Transition Metal Free  $\alpha$ -C-Alkylation of Ketones Using Secondary Alcohols", M. B. Dambatta, J. Santos, R. R. A. Bolt and L. C. Morrill\*, *Tetrahedron*, 2020, **76**, 131571. [Invited contribution to the Special Issue in memory of Prof. Jonathan Williams]. (Citations = 14)

42. "Steptavidin-hosted Organocatalytic Aldol Reaction", N. Santi, L. C. Morrill and L. Y. P. Luk\*, *Molecules*, 2020, **25**, 2457. [Invited contribution to the Hybrid Catalysts for Asymmetric Catalysis Special Issue]. (Citations = 12)
41. "*B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>-Catalyzed Direct C3 Alkylation of Indoles and Oxindoles*", S. Basak, A. Alvarez-Montoya, L. Winfrey, R. L. Melen\*, L. C. Morrill\* and A. P. Pulis\*, *ACS Catal.*, 2020, **10**, 4835-4840. (Citations = 44)
40. "*Manganese-Catalyzed One-Pot Conversion of Nitroarenes into N-Methylarylamines Using Methanol*", B. G. Reed-Berendt, N. Mast and L. C. Morrill\*, *Eur. J. Org. Chem.*, 2020, 1136-1140. [Invited contribution to the YourJOC Talents Special Issue]. (Citations = 28)
39. "*N-Heterocyclic Carbene Acyl Anion Organocatalysis by Ball-Milling*", W. I. Nicholson, A. C. Seastram, S. A. Iqbal, B. G. Reed-Berendt, L. C. Morrill\* and D. L. Browne\*, *ChemSusChem*, 2020, **13**, 131-135. [Hot Topic: Organocatalysis]. (Citations = 20)
38. "*Manganese-Catalyzed Electrochemical Deconstructive Chlorination of Cycloalkanols via Alkoxy Radicals*", B. D. W. Allen,<sup>†</sup> M. D. Hareram,<sup>†</sup> A. C. Seastram, T. McBride, T. Wirth, D. L. Browne\* and L. C. Morrill\*, *Org. Lett.*, 2019, **21**, 9241-9246. (Citations = 67)
37. "*One-Pot Conversion of Allylic Alcohols to  $\alpha$ -Methyl Ketons via Iron-Catalyzed Isomerization-Methylation*", D. E. Latham, K. Polidano, J. M. J. Williams and L. C. Morrill\*, *Org. Lett.*, 2019, **21**, 7914-7918. (Citations = 29)
36. "*Iron-Catalyzed Borrowing Hydrogen  $\beta$ -C(sp<sup>3</sup>)-Methylation of Alcohols*", K. Polidano, J. M. J. Williams and L. C. Morrill\*, *ACS Catal.*, 2019, **9**, 8575-8580. [Highlighted in *Synfacts*, 2019, 15, 1280] (Citations = 63)
35. "*Iron-Catalyzed Borrowing Hydrogen C-Alkylation of Oxindoles Using Alcohols*", M. B. Dambatta, K. Polidano, A. D. Northey, J. M. J. Williams and L. C. Morrill\*, *ChemSusChem*, 2019, **12**, 2345-2349. (Citations = 49)
34. "*Manganese-Catalyzed N-Alkylation of Sulfonamides Using Alcohols*", B. G. Reed-Berendt and L. C. Morrill\*, *J. Org. Chem.*, 2019, **84**, 3715-3724. [Highlighted in *Organic Chemistry Portal*]. (Citations = 48)
33. "*Recent Advances in Homogeneous Borrowing Hydrogen Catalysis Using Earth-Abundant First Row Transition Metals*", B. G. Reed-Berendt, K. Polidano and L. C. Morrill\*, *Org. Biomol. Chem.*, 2019, **17**, 1595-1607. [Invited contribution to the New Talent special issue]. (Citations = 271)
32. "*FLP-Catalyzed Transfer Hydrogenation of Silyl Enol*", I. Khan, B. G. Reed-Berendt, R. L. Melen\* and L. C. Morrill\*, *Angew. Chem. Int. Ed.*, 2018, **57**, 12356-12359. (Citations = 51)
31. "*Synthesis and Reactivity of N-Allenyl Cyanamides*", J. N. Ayres, M. T. J. Williams, G. J. Tizzard, S. J. Coles, K. B. Ling and L. C. Morrill\*, *Org. Lett.*, 2018, **20**, 5282-5285. (Citations = 19)
30. "*Reactivity and Selectivity of Iminium Organocatalysis Improved by a Protein Host*", A. R. Nödling, K. Świderek, R. Castillo, J. W. Hall, A. Angelastro, L. C. Morrill, Y. Jin, Y-H. Tsai, V. Moliner\* and L. Y. P. Luk\*, *Angew. Chem. Int. Ed.*, 2018, **57**, 12478-12482. (Citations = 42)
29. "*Iron-Catalyzed Methylation using the Borrowing Hydrogen Approach*", K. Polidano, B. D. W. Allen, J. M. J. Williams and L. C. Morrill\*, *ACS Catal.*, 2018, **8**, 6440-6445. (Citations = 197)
28. "*Exploring Tandem Ruthenium-Catalyzed Hydrogen Transfer and S<sub>N</sub>Ar Chemistry*", K. Polidano, B. G. Reed-Berendt, A. Basset, A. J. A. Watson, J. M. J. Williams and L. C. Morrill\*, *Org. Lett.*, 2017, **19**, 6716-6719. (Citations = 9)
27. "*Frustrated Lewis Pair (FLP)-Catalyzed Hydrogenation of Aza-Morita-Baylis-Hillman Adducts and Sequential Organo-FLP Catalysis*", I. Khan, M. Manzotti, G. J. Tizzard, S. J. Coles, R. L. Melen\* and L. C. Morrill\*, *ACS Catal.*, 2017, **7**, 7748-7752. (Citations = 29)
26. "*Deoxycyanamidation of Alcohols using N-Cyano-N-phenyl-p-methylbenzenesulfonamide (NCTS)*", J. N. Ayres, M. W. Ashford, Y. Stöckl, V. Prudhomme, K. B. Ling, J. A. Platts and L. C. Morrill\*, *Org. Lett.*, 2017, **19**, 3835-3838. (Citations = 22)

25. "N-Cyanation of Secondary Amines using Trichloroacetonitrile", J. N. Ayres, K. B. Ling and L. C. Morrill\*, *Org. Lett.*, 2016, **18**, 5528-5531. (Citations = 17)

Postdoctoral Publications (UC Berkeley with Prof. Richmond Sarpong):

24. "A Benzyne-Insertion Approach to Hetisine-Type Diterpenoid Alkaloids: Synthesis of Cossonidine (Davisine)", K. G. M. Kou, J. J. Pflueger, T. Kiho, L. C. Morrill, E. L. Fisher, K. Clagg, T. P. Lebold, J. K. Kisunzu\* and R. Sarpong\*, *J. Am. Chem. Soc.*, 2018, **140**, 8105-8109. [Highlighted in *Synfacts*, **2018**, *14*, 890] (Citations = 55)
23. "A Magnesiate Addition/Ring-Expansion Strategy to Access the 6-7-6 Tricyclic Core of Hetisine-type C20-Diterpenoid Alkaloids", J. J. Pflueger, L. C. Morrill, J. N. deGruyter, M. A. Perea and R. Sarpong\*, *Org. Lett.*, 2017, **19**, 4632-4635. (Citations = 9)
22. "Palladium-catalyzed  $\beta$ -Selective C(sp<sup>3</sup>)-H Arylation of N-Boc-Piperidines", A. Miller and O. Baudoin\*, Checked by L. C. Morrill and R. Sarpong, *Org. Synth.*, 2015, **92**, 76-90. (Citations = 1)

Postgraduate Publications (University of St Andrews with Prof. Andrew D. Smith):

21. "Catalytic Generation of Ammonium Enolates and Related Tertiary Amine-Derived Intermediates, Mechanism and Stereochemical Models ( $n$  to  $\pi^*$ )", K. N. Van, L. C. Morrill, A. D. Smith and D. Romo, Booke Chapter within "Lewis Base Catalysis in Organic Synthesis", ed. E. Vedejs and S. E. Denmark, Wiley, Weinheim, 2016. (Citations = 5)
20. "Enantioselective Synthesis of 3,5,6-Substituted Dihydropyranones and Dihydropyridinones using Isothiourea-Mediated Catalysis", D. G. Stark, L. C. Morrill, D. B. Cordes, A. M. Z. Slawin, T. J. C. O'Riordan and A. D. Smith\*, *Chem. Asian J.*, 2016, **11**, 395-400. [Special Issue: Catalysis and Transformation of Complex Molecules]. (Citations = 33)
19. "Asymmetric Isothiourea-Catalysed Formal [3+2] Cycloadditions of Ammonium Enolates with Oxaziridines", S. R. Smith, C. Fallan, J. E. Taylor, R. McLennan, D. S. B. Daniels, L. C. Morrill, A. M. Z. Slawin and A. D. Smith\*, *Chem. Eur. J.*, 2015, **21**, 10530-10536. (Citations = 40)
18. "Organocatalytic Michael Addition-Lactonisation of Carboxylic Acids using  $\alpha,\beta$ -Unsaturated Trichloromethyl Ketones as  $\alpha,\beta$ -Unsaturated Ester Equivalents", L. C. Morrill, D. G. Stark, J. E. Taylor, S. R. Smith, J. A. Squires, A. C. A. D'Hollander, C. Simal, P. Shapland, T. J. C. O'Riordan and A. D. Smith\*, *Org. Biomol. Chem.*, 2014, **12**, 9016-9027. [Highlighted in *Synfacts*, **2015**, *11*, 315]. [Part of themed collection: 2014 Hot Articles in Organic and Biological Chemistry]. (Citations = 35)
17. "Organocatalytic Lewis base functionalisation of carboxylic acids and esters via ammonium/azolium enolates", L. C. Morrill and A. D. Smith, *Chem. Soc. Rev.*, 2014, **43**, 6214-6226. [One of the most accessed articles in *Chem. Soc. Rev.* during June 2014]. (Citations = 164)
16. "Lewis Base Catalysed Asymmetric [2+2] Cycloadditions", A. D. Smith, J. Douglas, L. C. Morrill and E. Richmond, Book Chapter within "Methods and Applications of Cycloaddition Reactions in Organic Synthesis", ed. N. Nishiwaki, Wiley, New York, 2014. (Citations = 1)
15. "Isothiourea-Mediated Asymmetric Functionalization of 3-Alkenoic Acids", L. C. Morrill, S. M. Smith, A. M. Z. Slawin and A. D. Smith\*, *J. Org. Chem.*, 2014, **79**, 1640-1655. (Citations = 69)
14. "2-Arylacetic anhydrides as ammonium enolate precursors", L. C. Morrill, L. A. Ledingham, J-P. Couturier, J. Bickel, A. Harper, C. Fallan and A. D. Smith\*, *Org. Biomol. Chem.*, 2014, **12**, 624-636. (Citations = 52)
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