

## Jonathan Clayden — Publications (to June 2020)

291. *Atropisomerism in diarylamines: structural requirements and mechanisms of conformational interconversion*  
Romain Costil, Alistair J. Sterling, Fernanda Duarte, and Jonathan Clayden, *Angew. Chem. Int. Ed.* in press.

290. *Switchable foldamer ion channels with antibacterial activity*  
Anna D. Peters, Stefan Borsley, Flavio della Sala, Dominic F. Cairns-Gibson, Marios Leonidou, Jonathan Clayden, George F. S. Whitehead, Inigo Vitorica-Yrzebal, Eriko Takano, John Burthem, Scott L. Cockroft and Simon J. Webb, *Chem. Sci.* in press.

289. *Photocatalytic Difunctionalization of Vinyl Ureas by Radical Addition Polar Truce-Smiles Rearrangement Cascades*  
Roman Abrams and Jonathan Clayden, *Angew. Chem. Int. Ed.* in press.

288. *Molecular Recognition by Zn(II)-Capped Dynamic Foldamers*  
Natasha Eccles, Flavio della Sala, Bryden A. F. Le Bailly, George F. S. Whitehead, Jonathan Clayden and Simon J. Webb, *Chem. Open* 2020, **9**, 338.

287. *An Aliphatic Bischler-Napieralski reaction: Dihydropyridones by Cyclocarbonylation of 3-Allylimidazolidin-4-ones*  
Mostafa M. Amer, Olatz Olaizola, Jennifer Carter, Hossay Abas, and Jonathan Clayden, *Org. Lett.* 2020, **22**, 253.

286. *Fluorine and amide groups together at last*  
Jonathan Clayden *Nature* 2019, **573**, 37-38 [News and Views article]

285. *Remote conformational responses to enantiomeric excess in carboxylate-binding dynamic foldamers*  
Natasha Eccles, Bryden A. F. Le Bailly, Flavio della Sala, Inigo J. Vitorica-Yrezabal, Jonathan Clayden and Simon J. Webb, *Chem. Commun.* 2019, **55**, 9331-9334.

284. *Amino acid-derived trans-N-chloroformylimidazolidinones: scalable, stereoselective synthesis, structure, and utility*  
Mostafa Mahmoud Amer, Hossay Abas, Daniel J. Leonard, John W. Ward and Jonathan Clayden *J. Org. Chem.* 2019, **84**, 7199-7206.

283. *Extended diethylglycine homopeptides formed by desulfurization of their tetrahydrothiopyran analogues*  
Marta De Zotti and Jonathan Clayden, *Org. Lett.* 2019, **21**, 2209-2212.

282. *N-Chloroformylimidazolidinone Enolates as 1,3-Dipolar Reagents for the Stereoselective Synthesis of 3,4-Dihydroisoquinolones*  
Hossay Abas, Mostafa M. Amer, Olatz Olaizola and Jonathan Clayden, *Org. Lett.* 2019, **21**, 1908-1911.

281. *Connective Synthesis of 5,5-Disubstituted Hydantoins by Tandem  $\alpha$ -Amination and  $\alpha$ -Arylation of Silyl Ketene Acetals*  
Rakesh K. Saunthwal, Matthew T. Cornall, Roman Abrams, John W. Ward and Jonathan Clayden, *Chem. Sci.* 2019, **10**, 3408-3412.

280. *Asymmetric and Geometry-selective  $\alpha$ -Alkenylation of  $\alpha$ -Amino Acids*  
Hossay Abas, Josep Mas-Roselló, Mostafa M. Amer, Derek J. Durand, Robin R. Groleau, Natalie Fey and Jonathan Clayden, *Angew. Chem. Int. Ed.* 2019, **58**, 2418-2422.

279. *Chemoenzymatic synthesis of substituted azepanes by sequential biocatalytic reduction and organolithium-mediated rearrangement*  
Wojciech Zawodny, Sarah L. Montgomery, James R. Marshall, James D. Finnigan, Nicholas J. Turner and Jonathan Clayden, *J. Am. Chem. Soc.* 2018, **140**, 17872-17877.

278. *Substituted dihydroisoquinolinones by iodide-promoted cyclocarbonylation of aromatic  $\alpha$ -amino acids*  
Mostafa M. Amer, Ana C. Carrasco, Daniel J. Leonard, John W. Ward and Jonathan Clayden, *Org. Lett.* 2018, **20**, 7977-7981.

‡ This symbol indicates a non peer reviewed contribution (20 in this list)

277. *Enantioselectively functionalised phenytoin derivatives by diastereoselective intramolecular arylation of lithiated alpha-amino nitriles*  
Josep Mas-Roselló, Mary Okoh and Jonathan Clayden, *Chem. Commun.* 2018, **54**, 10985-10988.
276. *N,N'-Disuccinimidyl carbonate*  
Edwin C. Davison, Arun K. Ghosh, Nagaswamy Kumaragurubaran, David T. J. Morris, Jonathan Clayden, *Encyclopedia of Reagents for Organic Synthesis* 2018.
275. *Asymmetric alpha-Arylation of Amino Acids*  
Daniel J. Leonard, John W. Ward and Jonathan Clayden, *Nature* 2018, **562**, 105-109
274. *Transition Metal-Free Cycloamination of Prenyl Carbamates and Ureas Promoted by Aryldiazonium Salts*  
Roman Abrams, Quentin Lefebvre and Jonathan Clayden, *Angew. Chemie Int. Ed.* 2018, **57**, 13587-13591.
273. *Polycyclic indoline derivatives by dearomatizing anionic cyclization of indole and tryptamine-derived ureas*  
Jessica E. Hill, Quentin Lefebvre, Laura A. Fraser and Jonathan Clayden, *Org. Lett.* 2018, **20**, 5770-5773.
272. *Bis-pyrene probes of foldamer conformation in solution and in phospholipid bilayers*  
Francis G. A. Lister, Natasha Eccles, Sarah J. Pike, Robert A. Brown, George F. S. Whitehead, James Raftery, Simon J. Webb and Jonathan Clayden, *Chem. Sci.* 2018, **9**, 6860-6870.
271. *Optically-Active Vibrational Spectroscopy of  $\alpha$ -Aminoisobutyric Acid Foldamers in Organic Solvents and Phospholipid Bilayers*  
Maria Giovanna Lizio, Valery Andrushchenko, Sarah J. Pike, Anna D. Peters, George F. S. Whitehead, Iñigo J. Vitorica-Yrezabal, Shaun T. Mutter, Jonathan Clayden, Petr Bouř, Ewan W. Blanch, and Simon J. Webb, *Chem. Eur. J.* **2018**, *24*, 9399-9408.
270.  *$\alpha$ -Methyl phenylglycines by asymmetric  $\alpha$ -arylation of alanine and their effect on the conformational preference of helical Aib foldamers*  
Romain Costil, Fernando Fernández-Nieto, Rachel C. Atkinson and Jonathan Clayden *Org. Biomol. Chem. Org. Biomol. Chem.* **2018**, *16*, 2757-2761.
269. *Ring expansion and re-contraction for the synthesis of 1-aryl tetrahydroisoquinolines and tetrahydrobenzazepines from readily available heterocyclic precursors*  
Jessica E. Hill, Johnathan V. Matlock, Quentin Lefebvre, Katie G. Cooper and Jonathan Clayden, *Angew. Chem. Int. Ed.* **2018**, *57*, 5788-5791.
268. *Competing hydrogen-bond polarities in a dynamic oligourea foldamer: a molecular spring torsion balance*  
Romina Wechsel, Matej Žabka, John W. Ward and Jonathan Clayden, *J. Am. Chem. Soc.* **2018**, *140*, 3528-3531
267. *The Role of Terminal Functionality in the Membrane and Antibacterial Activity of Peptaibol-Mimetic Aib Foldamers*  
Catherine Adam, Anna D. Peters, M. Giovanna Lizio, George F. S. Whitehead, James Cooper, Scott L. Cockroft, Jonathan Clayden and Simon J. Webb, *Chem. Eur. J.* 2018, **24**, 2249-2256.
266. *Medium-ring analogues of dibenzodiazepines by conformationally induced Smiles ring expansion*  
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265. *Dibenzazepinyl ureas as dual NMR and CD probes of helical screw-sense preference in conformationally equilibrating dynamic foldamers*  
Vincent Diemer, Julien Maury, Bryden A. F. Le Bailly, Simon J. Webb, Jonathan Clayden, *Chem Commun.* 2017, **53**, 10768-10771 [Special Issue on Chemosensors and Molecular Logic].
264. *Heavily Substituted Atropisomeric Diarylamines by Unactivated Smiles Rearrangement of N-Aryl Anthranilamides*  
Romain Costil, Harvey J. A. Dale, Natalie Fey, George Whitcombe, Johnathan V. Matlock and Jonathan Clayden, *Angew. Chem. Int. Ed.* 2017, **56**, 12533-12537.
263. *Geometry-retentive C-alkenylation of lithiated  $\alpha$ -aminonitriles: quaternary  $\alpha$ -alkenyl amino acids and hydantoins*  
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262. *Signal transduction in oligoamide foldamers by selective non-covalent binding of chiral phosphates at a urea binding site*

Katharina Gratzner, Vincent Diemer and Jonathan Clayden, *Org. Biomol. Chem.*, 2017, **15**, 3585-3589.

261. *Host in Translation*

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260. *A tendril perversion in a helical oligomer: trapping and characterizing a mobile screw-sense reversal*

Michael Tomsett, Irene Maffucci, Bryden A. F. Le Bailly, Liam Byrne, Stefan M. Bijvoets, M. Giovanna Lizio, James Raftery, Craig P. Butts, Simon J. Webb, Alessandro Contini and Jonathan Clayden, *Chem. Sci.* 2017, **8**, 3007-2018.

259. *Ligand-modulated conformational switching in a fully synthetic membrane-bound receptor*

Francis G. A. Lister, Bryden A. F. Le Bailly, Simon J. Webb and Jonathan Clayden, *Nature Chem.* 2017, **9**, 420-425.

258. *Vinylation intramoléculaire de carbanions nucléophiliques par les N-acylbenzomorpholines comme vinylurées et vinylcarbamates masqués / Intramolecular Vinylation of Carbanions Using N-Acyl Benzomorpholines as Masked Vinylureas and Vinylcarbamates*

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Julien Maury, Wojciech Zawodny and Jonathan Clayden, *Org. Lett.* 2017, **19**, 472-475.

256. *Biocatalytic Dynamic Kinetic Resolution for the Synthesis of Atropisomeric Biaryl N-Oxide Lewis Base Catalysts*  
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Jessica E. Hall, Johnathan V. Matlock, John W. Ward, Katharine V. Gray, Jonathan Clayden, *Angew. Chemie. Int. Ed.*, 2016, **55**, 11153-11157 (VIP paper).

254. *Helical foldamers incorporating photoswitchable residues for light-mediated modulation of conformational preference*

Daniela Mazzier, Marco Crisma, Matteo De Poli, Giulia Marafon, Cristina Peggion, Jonathan Clayden and Alessandro Moretto, *J. Am. Chem. Soc.* 2016, **138**, 8007-8018.

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Romina Wechsel, James Raftery, Dominique Cavagnat, Gilles Guichard and Jonathan Clayden *Angew. Chemie. Int. Ed.* 2016, **55**, 9657-9661 (Hot paper).

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Julien Maury and Jonathan Clayden *J. Org. Chem.* 2015, **80**, 10757-10768
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237. *2,2- and 2,6-Diarylpiperidines by Aryl Migration within Lithiated Urea Derivatives of Tetrahydropyridines*  
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Benjamin M. Day, Joseph J. W. McDouall, Jonathan Clayden, and Richard A. Layfield *Organometallics* 2015, **34**, 2348-2355.
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