

## Jonathan Clayden — Publications (to March 2019)

283. *Extended diethylglycine homopeptides formed by desulfurization of their tetrahydrothiopyran analogues*  
Marta De Zotti and Jonathan Clayden, *Org. Lett.* in press.
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.* in press.
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.* in press
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.
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

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

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*

Romain Costil, Quentin Lefebvre, and Jonathan Clayden, *Angew. Chem. Int. Ed.* 2017, **56**, 14602-14606.

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*

Josep Mas-Roselló, Shuji Hachisu and Jonathan Clayden, *Angew. Chem. Int. Ed.* 2017, **56**, 10750-10754.

262. *Signal transduction in oligoamide foldamers by selective non-covalent binding of chiral phosphates at a urea binding site*

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

261. *Host in Translation*

Jonathan Clayden *Nature Nanotechnology*, 2017, **12**, 403-404 [News and views article].

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*

Brian P. Corbet, Johnathan V. Matlock, Josep Mas Roselló and Jonathan Clayden, *Comptes Rendus Chimie*, 2017, **20**, 634-642.

257. *Stereospecific Intramolecular Arylation of 2- and 3-Pyridyl Substituted Alkylamines via Configurationally Stable  $\alpha$ -Pyridyl Organolithiums*

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*

Samantha Staniland, Ralph W. Adams, Joseph J. W. McDouall, Irene Maffucci, Alessandro Contini, Damian Grainger, Nicholas J. Turner, Jonathan Clayden, *Angew. Chemie. Int. Ed.*, 2016, **55**, 10755-10759.

255. *Medium Ring Nitrogen Heterocycles by Migratory Ring Expansion of Metallated Ureas*

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.

253. *The meso helix: symmetry and symmetry-breaking in dynamic oligoureia foldamers with reversible hydrogen-bond polarity*

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

252. *No turning back for motorized molecules*

Jonathan Clayden, *Nature*, 2016, **534**, 187-188 [News and views article]‡

251. *Dynamic Foldamer Chemistry*

Bryden A. F. Le Bailly and Jonathan Clayden, *Chem. Commun.* 2016, **52**, 4852-4863.

250. *Conformational photoswitching of a synthetic peptide foldamer bound within a phospholipid bilayer*

Matteo De Poli, Wojciech Zawodny, Ophélie Quinonero, Mark Lorch, Simon J. Webb and Jonathan Clayden, *Science* 2016, **352**, 575-580. [Web of Science 'hot' and 'highly cited' paper]

249. *Substituent effects on axial chirality in 1-aryl-3,4-dihydroisoquinolines: controlling the rate of bond rotation*

Josep Mas Roselló, Samantha Staniland, Nicholas J. Turner and Jonathan Clayden, *Tetrahedron* in press (Symposium in print 'Control of Axial Chirality')

248. *Length-dependent formation of transmembrane pores by 3<sub>n</sub> helical Aib foldamers*

Jennifer E. Jones, Vincent Diemer, Catherine Adam, James Raftery, Rebecca E. Ruscoe, Jason Sengel, Mark I. Wallace, Antoine Bader, Scott L. Cockroft, Jonathan Clayden and Simon J. Webb, *J. Am. Chem. Soc.* 2016, **132**, 688-695.

247. *Refoldable foldamers: global conformational switching by deletion or insertion of a single hydrogen bond*

Bryden A. F. Le Bailly, Liam Byrne and Jonathan Clayden, *Angew. Chemie Int. Ed* 2016, **55**, 2312-2316.

246. *Origin of Helical Screw Sense Selectivity Induced by Chiral Constrained  $\alpha$ -Tetrasubstituted  $\alpha$ -Amino Acids in Aib-based Peptides*

Irene Maffucci, Jonathan Clayden and Alessandro Contini, *J. Phys. Chem. B* 2015, **119**, 14003-14013.

245.  *$\alpha$ -Quaternary proline derivatives by intramolecular diastereoselective arylation of N-carboxamido proline ester Enolates*

Julien Maury and Jonathan Clayden *J. Org. Chem.* 2015, **80**, 10757-10768

244. *Helical peptaibol mimics are better ionophores when racemic than when enantiopure*

Sarah J. Pike, Jennifer E. Jones, James Raftery, Jonathan Clayden, and Simon J. Webb *Org. Biomol. Chem.* 2015, **13**, 9580-9584.

243. *Palladium-catalysed C-arylation of amino acid derived hydantoins*

Fernando Fernández-Nieto, Josep Mas Roselló, Simone Lenoir, Simon Hardy and Jonathan Clayden *Org. Lett.* 2015, **17**, 3838-3841.

242. *Conformational cooperativity between helical domains of differing geometry in oligoamide-oligourea foldamer chimeras*

Julien Maury, Bryden A. F. Le Bailly, James Raftery and Jonathan Clayden *Chem. Commun.* 2015, **51**, 11802-11805

241. *Pseudoephedrine-directed asymmetric  $\alpha$ -arylation of  $\alpha$ -amino acid derivatives*

Rachel C. Atkinson, Fernando Fernández-Nieto, Josep Mas Roselló and Jonathan Clayden *Angew. Chem. Int. Ed.* 2015, **54**, 8961-8965.

240. *Conformational switching of a foldamer in a multi-component system by pH-filtered selection between competing non-covalent interactions*

Julien Brioche, Sarah J. Pike, Sofja Tshepelevitsh, Ivo Leito, Gareth A. Morris, Simon J. Webb, and Jonathan Clayden, *J. Am. Chem. Soc.* 2015, **137**, 6680-6691.

239. *Screw sense alone can govern enantioselective extension of a helical peptide by kinetic resolution of a racemic amino acid*

Liam Byrne, Jordi Solà and Jonathan Clayden *Chem. Commun.* 2015, **51**, 10965-10968.

238. *Geometry-selective synthesis of the unsaturated side chains of the isodomoic acids*

Nadia Fleary-Roberts, Gilles Lemièrre and Jonathan Clayden, *Tetrahedron*, 2015, **71**, 7204-7208 (Alan R. Katritzky memorial issue)

237. *2,2- and 2,6-Diarylpiperidines by Aryl Migration within Lithiated Urea Derivatives of Tetrahydropyridines*

Michael B. Tait, Sam Butterworth, and Jonathan Clayden *Org. Lett.* 2015, **17**, 1236-1239.

236. *Flaws in foldamers: conformational uniformity and signal decay in achiral helical peptide oligomers*

Bryden A. F. Le Bailly, Liam Byrne, Vincent Diemer, Mohammadali Foroozandeh, Gareth A. Morris, and Jonathan Clayden *Chem. Sci.* 2015, **6**, 2313-2322.

235. *Directed lithiation of pentadienylsilanes*

Benjamin M. Day, Joseph J. W. McDouall, Jonathan Clayden, and Richard A. Layfield *Organometallics* 2015, **34**, 2348-2355.

234. *Recent Developments in Inter- and Intra-molecular Enolate Arylation*  
Fernando Fernández-Nieto and Jonathan Clayden in *Reference Module in Chemistry, Molecular Sciences and Chemical Engineering* (ed. J. Reedijk) Elsevier, Oxford 2015 (ISBN 9780124095472)
233. *Enantioselective carbolithiation of S-alkenyl-N-aryl thiocarbamates: kinetic and thermodynamic control*  
Daniele Castagnolo, Leonardo Degennaro, Renzo Luisi, and Jonathan Clayden *Org. Biomol. Chem.* 2015, **13**, 2330-2340.
232. *Lithium choreography determines contrasting stereochemical outcomes of aryl migrations in benzylic carbamates, ureas and thiocarbamates*  
Mark A. Vincent, Julien Maury, Ian H. Hillier and Jonathan Clayden *Eur. J. Org. Chem.* 2015, 953-959.
231. *Participation of Non-Aminoisobutyric Acid (Aib) Residues in the 3<sub>1</sub> Helical Conformation of Aib-Rich Foldamers: A Solid State Study*  
Sarah J. Pike, Thomas Boddaert, James Raftery, Simon J. Webb and Jonathan Clayden *New J. Chem.* 2015, 39, 3288-3294 (Special issue on Foldamers)
230. *Mechanism of Stabilization of Helix Secondary Structure by Constrained C $\alpha$ -Tetrasubstituted Amino Acids*  
Irene Maffucci, Sara Pellegrino, Jonathan Clayden and Alessandro Contini *J. Phys. Chem. B* 2015, **119**, 1350-1361.
229. *Inducing achiral aliphatic oligoureas to fold into helical conformations*  
Romina Wechsel, Julien Maury, Juliette Fremaux, Scott P. France, Gilles Guichard and Jonathan Clayden *Chem. Commun.* 2014, **50**, 15006-15009.
228. *Designing Foldamer-Foldamer Interactions in Solution: The Roles of Helix Length and Terminus Functionality in Promoting the Self-Association of Aminoisobutyric Acid Oligomers*  
Sarah J. Pike, Vincent Diemer, James Raftery, Simon J. Webb, Jonathan Clayden *Chem. Eur. J.* 2014, **20**, 15981-15990.
227. *Enzymatic desymmetrising redox reactions for the asymmetric synthesis of biaryl atropisomers*  
Samantha Staniland, Bo Yuan, Nelson Giménez-Agulló, Tommaso Marcelli, Simon Willies, Damian Grainger, Nicholas J. Turner and Jonathan Clayden, *Chem. Eur. J.* 2014, **20**, 13084-13088.
226. *The synthesis of 1-arylcycloalkenamides by intramolecular arylation of lithiated ureas*  
Michael B. Tait, Philipp A. Ottersbach, Daniel J. Tetlow, and Jonathan Clayden, *Org. Proc. Res. Dev.* 2014, **18**, 1245-1252.
225. *Atropisomerism about Aryl-Csp<sup>2</sup> Bonds: The Electronic and Steric Influence of ortho-Substituents on Conformational Exchange in Cannabidiol and Linderatin Derivatives*  
Hatice Berber, Pedro Lameiras, Clément Denhez, Cyril Antheaume and Jonathan Clayden, *J. Org. Chem.* 2014, **79**, 6015-6027.
224. *Controlling the sign and magnitude of screw-sense preference from the C-terminus of an achiral helical foldamer*  
Bryden A. F. Le Bailly and Jonathan Clayden, *Chem. Commun.* 2014, **50**, 7949-7952.
223. *Dihydrothiophenes containing quaternary stereogenic centres by sequential stereospecific rearrangements and ring-closing metathesis*  
Gaëlle Mingat, Joseph J. W. McDouall and Jonathan Clayden, *Chem. Commun.* 2014, **50**, 6754-6757.
222. *Engineering the structure of an N-terminal  $\beta$ -turn to maximize screw-sense preference in achiral helical peptide chains*  
Matteo De Poli, Liam Byrne, Robert A. Brown, Jordi Solà, Alejandro Castellanos, Thomas Boddaert, Romina Wechsel, Jonathan D. Beadle, and Jonathan Clayden, *J. Org. Chem.* 2014, **79**, 4659-4675
221. *Conformational Analysis of Helical Aminoisobutyric Acid (Aib) Oligomers Bearing C-Terminal Schellman Motifs*  
Sarah J. Pike, Simon Webb and Jonathan Clayden, *Org. Biomol. Chem.* 2014, **12**, 4124-4131.
220. *Comprehensive Organic Synthesis II, vol. 8 (Reduction)*  
Jonathan Clayden (ed.), in *Comprehensive Organic Synthesis II*, ed. P. Knochel and G. A. Molander, pub. Elsevier 2014, vol. 8.
219. *Dearomatization and aryl migration in organolithium chemistry*  
Jonathan Clayden, in *Lithium Compounds in Organic Synthesis*, ed R. Luisi and V. Capriati, pub. Wiley-VCH 2014, chapter 13, pp. 375-394.

218. *Tertiary thiols from allylic thiocarbamates by tandem enantioselective [3,3]-sigmatropic rearrangement and stereospecific arylation*  
Gaëlle Mingat, Paul MacLellan, Marju Laars and Jonathan Clayden, *Org. Lett.* 2014, **16**, 1252-1255.
217. *Diastereomeric Ratio Determination by High Sensitivity Band-Selective Pure Shift NMR Spectroscopy*  
Ralph W. Adams, Liam Byrne, Péter Király, Mohammadali Foroozandeh, Liladhar Paudel, Mathias Nilsson, Jonathan Clayden and Gareth A. Morris, *Chem Commun.* 2014, **50**, 2512-2514.
216. *Thionoglycine as a multifunctional spectroscopic reporter of screw-sense preference in helical foldamers*  
Matteo De Poli and Jonathan Clayden, *Org. Biomol. Chem.* 2014, **12**, 836-843.
215. *Foldamer-mediated remote stereocontrol: >1,60 asymmetric induction*  
Liam Byrne, Jordi Solà, Thomas Boddaert, Tommaso Marcelli, Ralph W. Adams, Gareth A. Morris and Jonathan Clayden, *Angew. Chemie. Int. Ed.* 2014, **53**, 151-155 (VIP paper).
214. *Intramolecular arylation of amino acid enolates*  
Rachel C. Atkinson, Daniel J. Leonard, Julien Maury, Daniele Castagnolo, Nicole Volz, and Jonathan Clayden, *Chem. Commun.* 2013, **49**, 9734-9736.
213. *End-to-end conformational communication through a synthetic purinergic receptor by ligand-induced helicity switching*  
Robert A. Brown, Vincent Diemer, Simon J. Webb and Jonathan Clayden, *Nature Chem.* 2013, **5**, 853-860.
212. *The N-terminal nonapeptide of cephaibols A and C: a naturally occurring example of mismatched helical screw-sense control*  
Ugo Orcel, Matteo De Poli, Marta De Zotti and Jonathan Clayden, *Chem. Eur. J.* 2013, **19**, 16357-16365.
211. *Structural influences in lithium pentadienylsilane complexes*  
Benjamin M. Day, Jonathan Clayden and Richard A. Layfield, *Organometallics* 2013, **32**, 4448-4451.
210. *‡Solutions manual for Organic Chemistry, 2<sup>nd</sup> edition*  
Jonathan Clayden and Stuart Warren, ISBN 978-0-19-966334-7, pub. OUP, Oxford (2013).
209. *Manipulating the diastereoselectivity of ortholithiation in planar chiral ferrocenes*  
Simon A. Herbert, Dominic C. Castell, Jonathan Clayden and Gareth E. Arnott, *Org. Lett.* 2013, **15**, 3334-3337.
208. *Influence of achiral units with gem-dimethyl substituents on the helical character of aliphatic oligoureas*  
Juliette Fremaux, Christel Dolain, Brice Kauffmann, Jonathan Clayden and Gilles Guichard, *Chem. Commun.* 2013, **49**, 7415-7417.
207. *Dearomatizing cyclisation of lithiated allyl phenyl ethers: the role of an oxazoline substituent*  
Rebecca A. Harvey, Ol'ga Karlubíková, Sean Parris and Jonathan Clayden, *Tetrahedron Lett.* 2013, **54**, 4064-4066
206. *Carbolithiation of S-alkenyl-N-aryl thiocarbamates: carbanion arylation in a connective route to tertiary thiols*  
Daniele Castagnolo, Daniel J. Foley, Hatice Berber, Renzo Luisi, and Jonathan Clayden, *Org. Lett.* 2013, **15**, 2116-2119.
205. *Diastereotopic fluorine substituents as <sup>19</sup>F NMR probes of screw-sense preference in helical foldamers*  
Sarah J. Pike, Matteo De Poli, Wojciech Zawodny, James Raftery, Simon J. Webb and Jonathan Clayden, *Org. Biomol. Chem.* 2013, **11**, 3168-3176.
204. *Spirocyclic dihydropyridines by electrophile-induced dearomatizing cyclization of N-alkenyl pyridinecarboxamides*  
Jemma Senczysyn, Heloise Brice and Jonathan Clayden, *Org. Lett.* 2013, **15**, 1922-1925.
203. *Carbolithiation of N-alkenyl ureas and N-alkenyl carbamates*  
Julien Lefranc, Alberto Minassi and Jonathan Clayden, *Beilstein J. Org. Chem.* 2013, **6**, 628-632.
202. *Left-handed helical preference in an achiral peptide chain is induced by an L-amino acid in an N-terminal Type II  $\beta$ -turn*  
Matteo De Poli, Marta De Zotti, James Raftery, Juan A. Aguilar, Gareth A. Morris and Jonathan Clayden, *J. Org. Chem.* 2013, **78**, 2248-2255.
201. *Reversible aryl migrations in metallated ureas: controlled inversion of configuration at a quaternary carbon atom*  
Daniel J. Tetlow, Mark A. Vincent, Ian H. Hillier and Jonathan Clayden, *Chem. Comm.* 2013, **49**, 1548-1550.

200. Amines bearing tertiary substituents by tandem enantioselective carbolithiation–rearrangement of vinyl ureas  
Michael Tait, Morgan Donnard, Alberto Minassi, Julien Lefranc, Beatrice Bechi, Giorgio Carbone, Peter O'Brien, and Jonathan Clayden, *Org. Lett.* 2013, **15**, 34-37.

199. Lithium choreography: intramolecular arylations of carbamate-stabilised carbanions and their mechanisms probed by in-situ IR and DFT  
Anne M. Fournier, Christopher J. Nichols, Mark A. Vincent, Ian H. Hillier and Jonathan Clayden, *Chem. Eur. J.* 2012, **18**, 16478-16490.

198. S-Allyl thiocarbamates from allylic alcohols by in situ [3,3]-sigmatropic rearrangement of a thiocarbonyldiimidazole adduct  
Gaëlle Mingat and Jonathan Clayden, *Synthesis*, 2012, 2723.

197. Lithiated tertiary carbanions display variable coordination modes: the evidence from DFT and NMR studies  
Mark A. Vincent, Alison Campbell Smith, Morgan Donnard, Philip J. Harford, Joanna Haywood, Ian H. Hillier, Jonathan Clayden, and Andrew E. H. Wheatley, *Chem. Eur. J.* 2012, **18**, 11036-11045.

196. *Organic Chemistry (Second Edition)*  
Jonathan Clayden, Nick Greeves, and Stuart Warren, ISBN 0-19-927029-3, pub. OUP, Oxford (2012).

195. Intramolecular vinylation of secondary and tertiary organolithiums  
Julien Lefranc, Anne M. Fournier, Gaëlle Mingat, Simon Herbert, Tommaso Marcelli, and Jonathan Clayden, *J. Am. Chem. Soc.* 2012, **134**, 7286-7289.

194. Chemical communication: conductors and insulators of screw-sense preference between helical oligo(aminoisobutyric acid) domains  
Thomas Boddaert, Jordi Solà, Madeleine Helliwell and Jonathan Clayden, *Chem. Commun.* 2012, **48**, 3397-3399.

193. *Stabilizers cause instability (News and Views article)*  
Jonathan Clayden, *Nature (London)* 2012, **481**, 274-275.

192. Induction of unexpected left-handed helicity by an N-terminal L-amino acid in an otherwise achiral peptide chain  
Robert A. Brown, Tommaso Marcelli, Matteo De Poli, Jordi Solà, and Jonathan Clayden, *Angew. Chemie Int. Ed.* 2012, **51**, 1395-1399.

191. Tertiary alcohols by tandem  $\beta$ -carbolithiation and N $\rightarrow$ C aryl migration in enol carbamates  
Anne M. Fournier and Jonathan Clayden, *Org. Lett.* 2012, **14**, 142-145.

190. On the control of secondary carbanion structure utilizing ligand effects during directed metalation  
Andrew E. H. Wheatley, Jonathan Clayden, Ian H. Hillier, Alison Campbell Smith, Mark A. Vincent, Laurence J. Taylor and Joanna Haywood, *Beilstein J. Org. Chem.* 2012, **8**, 50-60.

189. The Mechanism of the Stereospecific Intramolecular Arylation of Lithiated Ureas: The Role of Li<sup>-</sup> probed by electronic structure calculations, and by NMR and IR spectroscopy  
Damian M. Grainger, Alison Campbell Smith, Mark A. Vincent, Ian H Hillier, Andrew E. H. Wheatley and Jonathan Clayden, *Eur. J. Org. Chem.* 2012, 731-743.

188. Is nevirapine atropisomeric? Experimental and computational evidence for rapid conformational inversion  
Edmund W. D. Burke, Gareth A. Morris, Mark A. Vincent, Ian H. Hillier and Jonathan Clayden, *Org. Biomol. Chem.* 2012, **10**, 716-719.

187. The Urea Renaissance  
Nicole Volz and Jonathan Clayden, *Angew. Chemie Int. Ed.* 2011, **50**, 12148-12155.

186. *Dearomatizing reactions using organolithiums*  
Gilles Lemièrre and Jonathan Clayden, *Science of Synthesis, Knowledge Updates* 2011, **4**, 139-190.

185. *Communicating chirality (News and Views article)*  
Jonathan Clayden, *Nature Chemistry* 2011, **3**, 842.

184. Carbamate-directed benzylic lithiation for the diastereo- and enantioselective synthesis of diaryl ether atropisomers  
Abigail Page and Jonathan Clayden, *Beilstein J. Org. Chem.* 2011, **7**, 1327-1333.

183. *Synthesis of enantiomerically enriched (R)-<sup>13</sup>C-labelled 2-aminoisobutyric acid (Aib) by conformational memory in the alkylation of a derivative of L-alanine*  
Stephen P. Fletcher, Jordi Solà, Dean Holt, Robert A. Brown and Jonathan Clayden, *Beilstein J. Org. Chem.* 2011, **7**, 1304-1309
182. *Ligand effects in the formation of tertiary carbanions from substituted tertiary aromatic amides*  
Alison Campbell Smith, Morgan Donnard, Joanna Haywood, Mary McPartlin, Mark A. Vincent, Ian H. Hillier, Jonathan Clayden, and Andrew E.H. Wheatley, *Chem. Eur. J.* 2011, **17**, 8078-8084
181. *Attack on fluorinated 2-aryloxazolines by organolithiums: dearomatisation, lithiation or substitution*  
James Clayton and Jonathan Clayden, *Tetrahedron Lett.* 2011, **52**, 2436-2439
180. *Asymmetric synthesis of tertiary thiols and thioethers*  
Jonathan Clayden and Paul MacLellan, *Beilstein J. Org. Chem.* 2011, **7**, 582-595
179. *Measuring screw-sense preference in a helical oligomer by comparison of <sup>13</sup>C NMR signal separation at slow and fast exchange*  
Jordi Solà, Gareth A. Morris and Jonathan Clayden, *J. Am. Chem. Soc.* 2011, **133**, 3712-3715
178. *Quaternary centres bearing nitrogen ( $\alpha$ -tertiary amines) as products of molecular rearrangements*  
Jonathan Clayden, Morgan Donnard, Julien Lefranc and Daniel J. Tetlow, *Chem. Commun.* 2011, 4624-4639
177. *A general synthetic approach to the amnesic shellfish toxins: total synthesis of (-)-isodomoic acid B, (-)-isodomoic acid E and (-)-isodomoic acid F*  
Gilles Lemière, Simon Sedehizadeh, Julie Toueg, Nadia Fleary-Roberts and Jonathan Clayden, *Chem. Commun.* 2011, 3745-3747
176. *Enantioselective synthesis of tertiary thiols by intramolecular arylation of lithiated thiocarbamates*  
Paul MacLellan and Jonathan Clayden, *Chem Commun.* 2011, 3395-3397
175. *Geometry-selective synthesis of E or Z N-vinyl ureas (N-carbamoyl enamines)*  
Julien Lefranc, Daniel J. Tetlow, Morgan Donnard, Alberto Minassi, Erik Gálvez and Jonathan Clayden, *Org. Lett.* 2011, **13**, 296-299
174. *Interruption of a <sub>3</sub><sub>n</sub>-helix by single Gly residue in a poly-Aib motif: a crystallographic study*  
Jordi Solà, Madeleine Helliwell and Jonathan Clayden, *Biopolymers* 2011, **95**, 62-69
173. *Sequential double  $\alpha$ -arylation of N-allylureas by asymmetric deprotonation and N $\rightarrow$ C aryl migration*  
Daniel J. Tetlow, Ulrich Hennecke, James Raftery, Michael J. Waring, David S. Clarke and Jonathan Clayden, *Org. Lett.* 2010, **12**, 5442-5445
172. *The origin of the conformational preference of N,N'-diaryl-N,N'-dimethyl ureas*  
Jonathan Clayden, Ulrich Hennecke, Mark A. Vincent, Ian H. Hillier and Madeleine Helliwell, *Phys. Chem. Chem. Phys.* 2010, **12**, 15056-15064
171. *Biocatalytic desymmetrisation of an atropisomer mediated by both an enantioselective oxidase and ketoreductases*  
Bo Yuan, Abigail Page, Christopher P. Worrall, Franck Escalettes, Simon C. Willies, Joseph J. W. McDouall, Nicholas J. Turner and Jonathan Clayden, *Angew. Chemie Int. Ed.* 2010, **49**, 7010-7013
170. *Nanometre-range communication of stereochemical information by reversible switching of molecular helicity*  
Jordi Solà, Stephen P. Fletcher, Alejandro Castellanos and Jonathan Clayden, *Angew. Chemie Int. Ed.* 2010, **49**, 6836-6839
169. *‡Deconstructing THF [news and views article]*  
Jonathan Clayden, *Nature Chemistry*, 2010, **2**, 523-524
168. *Hindered diarylether and diarylsulfone bisphosphine ligands: atropisomerism and palladium complexes*  
Jonathan Clayden, Stephen P. Fletcher, James Senior and Christopher P. Worrall, *Tetrahedron: Asymm.* 2010, **21**, 1355-1360
167. *Conformational studies of tertiary oligo-m-benzanilides and oligo-p-benzanilides in solution*  
Laurent Chabaud, Jonathan Clayden, Madeleine Helliwell, Abigail Page, James Raftery and Lluís Vallverdú, *Tetrahedron* 2010, **66**, 6936-6957

166. Tandem  $\beta$ -alkylation- $\alpha$ -arylation of amines by carbolithiation and rearrangement of *N*-carbamoyl enamines (vinyl ureas)

Jonathan Clayden, Morgan Donnard, Julien Lefranc, Alberto Minassi and Daniel J. Tetlow, *J. Am. Chem. Soc.* 2010, **132**, 6624-6625

165. Synthesis of (-)-(S,S)-clemastine by invertive *N*→*C* aryl migration in a lithiated carbamate

Anne M. Fournier, Robert A. Brown, William Farnaby, Hideki Miyatake-Onozabal, and Jonathan Clayden, *Org. Lett.* 2010, **12**, 2222-2225

164. *N*- vs. *C*-terminal control over the screw-sense preference of the configurationally achiral, conformationally helical peptide motif Aib.GlyAib.

Jordi Solà, Madeleine Helliwell and Jonathan Clayden, *J. Am. Chem. Soc.* 2010, **132**, 4548-4549.

163. Fused bicyclic piperidines and dihydropyridines by dearomatising cyclisation of the enolates of nicotinyl-substituted esters and ketones

Heloise Brice, Jonathan Clayden and Stuart D. Hamilton, *Beilstein J. Org. Chem.* 2010, **6**, No 22.

162. A one-pot synthesis of 2-aryl-4,5-anti-diphenyl oxazolines

Jonathan Clayden, James Clayton, Rebecca A. Harvey, and Olga Karlubíková, *Synlett* 2009, 2836-2838.

161. Direct synthesis of sulfonated azacalixarenes in water

Jonathan Clayden, Stephen J. M. Rowbottom, Warren J. Ebenezer and Michael G. Hutchings *Org. Biomol. Chem.* 2009, 4871-4880.

160. Synthesis of 2,2',6-trisubstituted and 2,2',6,6'-tetrasubstituted diaryl sulfides and diaryl sulfones by copper-promoted coupling and / or ortholithiation

Jonathan Clayden and James Senior, *Synlett* 2009, 2769-2772.

159. The challenge of atropisomerism in drug discovery

Jonathan Clayden, Wesley J. Moran, Paul J. Edwards and Steven R. LaPlante, *Angew. Chemie Int. Ed.* 2009, **48**, 6398-6401.

158. Atropisomerism at *C*-*S* bonds: asymmetric synthesis of diaryl sulfones by dynamic resolution under thermodynamic control

Jonathan Clayden, James Senior and Madeleine Helliwell, *Angew. Chemie Int. Ed.* 2009, **48**, 6270-6273.

157. Quantifying end-to-end conformational communication of chirality through an achiral peptide chain

Jonathan Clayden, Alejandro Castellanos, Jordi Solà and Gareth A. Morris, *Angew. Chemie Int. Ed.* 2009, **48**, 5962-5965.

156. Conformational Preferences of a Polar Biaryl: a Phase- and Enantiomeric Purity-Dependent Molecular Hinge

Jonathan Clayden, Stephen P. Fletcher, S. J. M. Rowbottom and Madeleine Helliwell *Org. Lett.* 2009, **11**, 2313-2316

155. Formation of water-soluble sulfonated azacalix[4]arenes from cyanuric chloride

Jonathan Clayden, Stephen J. M. Rowbottom, Michael G. Hutchings and Warren J. Ebenezer *Tetrahedron Lett.* 2009, **50**, 3923-3925

154. Controlling axial conformation in 2-arylpyridines and 1-arylisoquinolines: application to the asymmetric synthesis of QUINAP by dynamic thermodynamic resolution

Jonathan Clayden, Stephen P. Fletcher, Joseph J. W. McDouall and Stephen J. M. Rowbottom, *J. Am. Chem. Soc.* 2009, **131**, 5331-5434

153. *N* to *C* aryl migration in lithiated carbamates:  $\alpha$ -arylation of benzylic alcohols

Jonathan Clayden, William Farnaby, Damian M. Grainger, Ulrich Hennecke, Michele Mancinelli, Daniel J. Tetlow, Ian H. Hillier and Mark A. Vincent, *J. Am. Chem. Soc.* 2009, **131**, 3410-3411.

152. Doubly dearomatising intramolecular coupling of a nucleophilic and an electrophilic heterocycle

Heloise Brice and Jonathan Clayden, *Chem. Commun.* 2009, 1964-1966.

151. Enantiomerically enriched atropisomeric *N,N'*-diaryl ureas by oxidative kinetic resolution of their 2-sulfanyl derivatives

Jonathan Clayden and Hazel Turner, *Tetrahedron Lett.* 2009, **50**, 3216-3219.

150. Transmission of stereochemical information over nanometre distances in chemical reactions

Jonathan Clayden, *Chem. Soc. Rev.* 2009, **38**, 817-829.



149.  $\alpha$ -Arylation of cyclic amines by aryl transfer in lithiated ureas  
Renaud Bach, Jonathan Clayden and Ulrich Hennecke, *Synlett*, 2009, 421-424.
148. Relaying stereochemistry through aromatic ureas: 1,9 and 1,15 remote stereocontrol  
Jonathan Clayden, Mark Pickworth and Lyn. H. Jones, *Chem. Commun.* 2009, 547-549.
147. Asymmetric synthesis of biaryl atropisomers by dynamic resolution on condensation of biaryl aldehydes with (-)-ephedrine or a proline- derived diamine  
Ann Bracegirdle, Jonathan Clayden and Lai Wah Lai, *Beilstein J. Org. Chem.* 2008, **4**, 47.
146. Synthesis of enantiomerically enriched isotopically-labelled anilines by (-)-sparteine directed lithiation  
Jonathan Clayden, Loïc Lemiègre and Mark Pickworth, *Tetrahedron Asymmetry* 2008, **19**, 2218-2221
145. Helix persistence and breakdown in oligoureas of metaphenylenediamine: apparent diastereotopicity as a spectroscopic marker of helix length in solution  
Jonathan Clayden, Loïc Lemiègre, Gareth A. Morris, Mark Pickworth, Timothy J. Snape and Lyn H. Jones, *J. Am. Chem. Soc.* 2008, **130**, 15193-15202.
144.  $\alpha$ -Pyridylation of chiral amines via urea coupling, lithiation and rearrangement  
Jonathan Clayden and Ulrich Hennecke, *Org. Lett.* 2008, **10**, 3567-3570
143. Conformation and Stereodynamics of 2,2'-Disubstituted N,N'-Diaryl Ureas  
Jonathan Clayden, Loïc Lemiègre, Mark Pickworth and Lyn Jones, *Org. Biomol. Chem.* 2008, **6**, 2908-2913.
142. Stereoselective Dearomatizing Addition of Nucleophiles to Uncomplexed Benzene Rings: A Route to Carbocyclic Sugar Analogues  
Jonathan Clayden, Sean Parris, Nuria Cabedo and Andrew H. Payne, *Angew. Chemie Int Ed.* 2008, **47**, 5060-5062.
141. Electrophile-induced dearomatizing spirocyclisation of N-aryl isonicotinamides: a route to spirocyclic piperidines  
Gareth Arnott, Heloise Brice, Jonathan Clayden and Emma Blaney, *Org. Lett.* 2008, **10**, 3089-3092.
140. N,N'-Diarylureas: A New Family of Atropisomers Exhibiting Highly Diastereoselective Reactivity  
Jonathan Clayden, Hazel Turner, Madeleine Helliwell and Elizabeth Moir, *J. Org. Chem.* 2008, **73**, 4415-4423.
139. Enantioselective synthesis of an atropisomeric diaryl ether  
Jonathan Clayden, Christopher P. Worrall, Wesley J. Moran and Madeleine Helliwell, *Angew. Chemie Int Ed.* 2008, **47**, 3234-3237
138. Conformational switching between diastereoisomeric atropisomers of arenedicarboxamides induced by complexation with Lewis acids  
Jonathan Clayden, Lluís Vallverdú, James Clayton and Madeleine Helliwell, *Chem. Commun.* 2008, 561-563.
137. ‡Remote Control of Stereochemistry: Communicating Information via Conformation  
Jonathan Clayden, in *Molecular Interactions – Bringing Chemistry to Life*, ed. M. G. Hicks and C. Kettner, pub. Beilstein Institut 2007, ISBN 978-3-8325-1791-5.
136. Oxidative fragmentation of bicyclic hydroxy silanes and stannanes: a strategy for the stereoselective synthesis of kainoids  
Jonathan Clayden, Katherine R. Hebditch, Benjamin Read and Madeleine Helliwell, *Tetrahedron Lett.* 2007, **48**, 8550-8553
135. Substituted Diarylmethylamines by Stereospecific Intramolecular Electrophilic Arylation of Lithiated Ureas  
Jonathan Clayden, Jérémy Dufour, Damian M. Grainger and Madeleine Helliwell, *J. Am. Chem. Soc.* 2007, **129**, 7488-7489.
134. Transmitting information along oligoparaphenylenes: 1,12-stereochemical control in a terphenyl tetracarboxamide  
Jonathan Clayden, Lluís Vallverdú and Madeleine Helliwell, *Chem. Commun.* 2007, 2357-2359.
133. Synthesis of densely functionalised arenes using [2+2+2] cycloaddition reactions  
Jonathan Clayden and Wesley J. Moran, *Org. Biomol. Chem.* 2007, **5**, 1028-1030.
132. Synthesis and stacked conformations of symmetrical and unsymmetrical oligo-ureas of metaphenylenediamine  
Jonathan Clayden, Loïc Lemiègre, and Madeleine Helliwell, *J. Org. Chem.* 2007, **72**, 2302-2308.

131. *Achieving conformational control over C–C, C–N and C–O bonds in biaryls, N,N'-diarylureas and diaryl ethers: advantages of a relay axis*

Mark S. Betson, Ann Bracegirdle, Jonathan Clayden, Madeleine Helliwell, Andrew Lund, Mark Pickworth, Timothy J. Snape and Christopher P. Worrall, *Chem. Commun.* 2007, 754-756

130. *Azabicyclic amino acids by stereoselective dearomatizing cyclization of the enolates of N-nicotinoyl glycine derivatives*

Gareth Arnott, Jonathan Clayden and Stuart D. Hamilton, *Org. Lett.* 2006, **8**, 5325-5328

129. *The twisted amide 2-quinuclidone: 60 years in the making*

Jonathan Clayden and Wesley J. Moran, *Angew. Chemie Int. Ed.*, 2006, **45**, 7118-7120.

128. *Lateral lithiation of N,N'-diaryl ureas*

Jonathan Clayden and Jérémy Dufour, *Tetrahedron Lett.*, 2006, **47**, 6945-6946.

127. *‡BBC Radio 4: The Isomers Have It*

Jonathan Clayden (presenter Sue Nelson; producer Helen Sharp), *BBC Radio 4*, 5<sup>th</sup> July 2006, 9.00-9.30 pm

126. *Three groups good, four groups bad? Atropisomerism in ortho-substituted diaryl ethers*

Mark S. Betson, Jonathan Clayden, Christopher P. Worrall and Simon Peace, *Angew. Chem. Int. Ed.*, 2006, **45**, 5803-5807 (*Angew. Chemie* 2006, **118**, 5935).

125. *Stereochemical relays: communication via conformation*

Jonathan Clayden and Neoclis Vassiliou, *Org. Biomol. Chem.*, 2006, **4**, 2667-2678.

124. *Conformational communication between the Ar–CO and Ar–N axes in 2,2'-disubstituted benzanilides and their derivatives*

Jonathan Clayden, Lluís Vallverdú and Madeleine Helliwell, *Org. Biomol. Chem.* 2006, **4**, 2106-2118.

123. *Addition of lithiated tertiary aromatic amides to epoxides and aziridines: asymmetric synthesis of (S)-(+)-mellein*

Jonathan Clayden, Christopher C. Stimson, Madeleine Helliwell and Martine Keenan, *Synlett* 2006, 873-876.

122. *Contra-Friedel-Crafts tert-butylation of substituted aromatic rings via directed metallation and sulfinylation*

Jonathan Clayden, Christopher C. Stimson and Martine Keenan, *Chem. Commun.*, 2006, 1393-1394.

121. *Synthesis of multiply ortho-substituted diaryl ethers via lithiation and oxidation of a dibenzosiloxane (phenoxasilin)*

Mark S. Betson and Jonathan Clayden, *Synlett* 2006, 745-746.

120. *Diastereoselective synthesis of atropisomers containing two non-biaryl stereogenic axes: stereochemical relay through stereogenic centres in dihydrostilbene-2,2'-dicarboxamides*

Jonathan Clayden, Neil Westlund, Christopher S. Frampton and Madeleine Helliwell, *Org. Biomol. Chem.* 2006, **4**, 455-461.

119. *Conformational arm-wrestling: battles for stereochemical control in benzamides bearing matched and mismatched chiral 2- and 6- substituents*

Jonathan Clayden, Yann J. Y. Foricher, Madeleine Helliwell, Paul Johnson, David Mitjans and Victoria Vinader, *Org. Biomol. Chem.* 2006, **4**, 444-454.

118. *Conformational preference in aromatic amides bearing chiral ortho substituents: its origin and application to relayed stereocontrol*

Mark S. Betson, Jonathan Clayden, Madeleine Helliwell, Paul Johnson, Lai Wah Lai, Jennifer H. Pink, Christopher C. Stimson, Neoclis Vassiliou, Neil Westlund, Samreen A. Yasin and Latifa H. Youssef, *Org. Biomol. Chem.* 2006, **4**, 424-443.

117. *‡Editorial – Inaugural issue of Beilstein Journal of Organic Chemistry*

Jonathan Clayden, *Beilstein. J. Org. Chem.* 2005: 1.

116. *Kinetic and thermodynamic stereocontrol in the atroposelective formation of sulfoxides by oxidation of 2-sulfanyl-1-naphthamides*

Mark S. Betson, Jonathan Clayden, Madeleine Helliwell and David Mitjans, *Org. Biomol. Chem.* 2005, **3**, 3898-3904.

115. *Cyclization of lithiated pyridine- and quinolinecarboxamides: synthesis of partially saturated pyrrolopyridines and spirocyclic beta-lactams*

Jonathan Clayden, Stuart D. Hamilton and Rukhsana T. Mohammed, *Org. Lett.* 2005, **7**, 3673-3676.

114. *Slow interconversion of enantiomeric conformers or atropisomers of anilide and urea derivatives of 2-substituted anilines.*

Thomas Adler, Josep Bonjoch, Jonathan Clayden, Mercè Font-Bardía, Mark Pickworth, Xavier Solans, Daniel Solé and Lluís Vallverdú, *Org. Biomol. Chem.* 2005, **3**, 3173-3183.

113. *Ring-selective functionalisation of N,N'-diarylureas by regioselective N-alkylation and directed ortho-metallation*

Jonathan Clayden, Hazel Turner, Mark Pickworth and Thomas Adler, *Org. Lett.* 2005, **7**, 3147-3151.

112. *Diastereoselective protonation of extended pyrrol-3-en-2-one enolates: an attempted "de-epimerisation"*

Jonathan Clayden, Rachel Turnbull and Ivan Pinto, *Tetrahedron: Asym.* 2005, **16**, 2235-2241.

111. *Asymmetric ortholithiation of amides by conformationally mediated chiral memory: an enantioselective route to naphtho- and benzofuranones*

Jonathan Clayden, Christopher C. Stimson and Martine Keenan, *Synlett* 2005, 1716-1720.

110. ‡*Focus Article: Ultra-remote stereocontrol by conformational communication of information along a carbon chain*

Kenso Soai and Jonathan Clayden, *Letters in Organic Chemistry*, 2005, **2**, 389-391.

109. *Chemistry of domoic acid, isodomoic acids and their Analogues*

Jonathan Clayden, Benjamin Read and Katherine R. Hebditch, *Tetrahedron* 2005, **61**, 5713-5724

108. *The synthesis of (-)-isodomoic acid C*

Jonathan Clayden, Faye. E. Knowles and Ian R. Baldwin, *J. Am. Chem. Soc.* 2005, **127**, 2412-2413.

107. *Using dipoles to control the directionality of functional groups: syn and anti oriented benzene-1,3-dicarboxamides*

Mark S. Betson, Jonathan Clayden, Ho Kam Lam and Madeleine Helliwell, *Angew. Chemie Int. Ed.*, 2005, **44**, 1241-1244 (*Angew. Chemie* 2005, **117**, 1267-1270)

106. *Can relief of ring-strain in a cyclopropylmethyl lithium drive the Brook rearrangement?*

Jonathan Clayden, David W. Watson and Mark Chambers, *Tetrahedron*, 2005, **61**, 3195.

105. ‡*Book Review: "Stereochemistry at a glance", J. Eames and J. Peach.*

Jonathan Clayden, *Chemistry World*, Sept. 2004, 63

104. *Dearomatising rearrangements of lithiated thiophenecarboxamides*

Jonathan Clayden, Rachel Turnbull, Madeleine Helliwell and Ivan Pinto, *Chem. Commun.*, 2004, 2430-2431.

103. *Total synthesis of kainoids by dearomatizing anionic cyclisation*

Jonathan Clayden, *Strategies and Tactics in Organic Synthesis*, vol. 4, p. 71. ed Michael Harmata, Academic Press, 2004.

102. *Cyclisations of organolithiums onto aromatic rings*

Jonathan Clayden and Martin Kenworthy, *Synthesis*, 2004, 1721-1736

101. *The directed metallation of aromatic compounds*

Jonathan Clayden, in *The Chemistry of Organolithium Compounds*, pp 497-648, ed. Z. Rappoport and I. Marek, Wiley, Chichester, 2004.

100. *Ultra-remote stereocontrol by conformational communication of information along a carbon chain*

Jonathan Clayden, Andrew Lund, Lluís Vallverdú and Madeleine Helliwell, *Nature (London)*, 2004, **431**, 966-971.

99. *Dynamic resolution of atropisomeric amides using proline-derived imidazolidines and ephedrine-derived oxazolidines*

Jonathan Clayden, Lai Wah Lai and Madeleine Helliwell, *Tetrahedron*, 2004, **60**, 4399-4412.

98. *Sulfoxides as "Traceless" Resolving Agents for the Synthesis of Atropisomers by Dynamic or Classical Resolution*

Jonathan Clayden, Przemyslaw M. Kubinski, Federica Sammiceli, Madeleine Helliwell and Louis Diorazio, *Tetrahedron*, 2004, **60**, 4387-4397.

97. ‡*Atropisomerism* (Preface to *Tetrahedron Symposium* in print)

Jonathan Clayden, *Tetrahedron* 2004, **60**, 4335

96. *Nucleophilic addition to electron-rich heteroaromatics: dearomatising anionic cyclisations of pyrrolecarboxamides*

Jonathan Clayden, Rachel Turnbull and Ivan Pinto, *Org. Lett.*, 2004, **6**, 609-611.

95. *Controlling chemoselectivity in the Lithiation of Substituted Aromatic Tertiary Amides*  
David R. Armstrong, Sally R. Boss, Jonathan Clayden, Robert Haigh, Basel A. Kirmani, David J. Linton, Paul Schooler and Andrew E. H. Wheatley, *Angew. Chem. Int. Ed.*, 2004, **43**, 2135-2138.
94. *Fast racemisation and slow epimerisation of laterally lithiated amides: stereochemical evidence for the mechanism of inversion of amide-substituted benzylolithiums*  
Jonathan Clayden, Christopher C. Stimson, Martine Keenan and Andrew E. H. Wheatley, *Chem. Commun.*, 2004, 228-229.
93. *Atropisomers and near-atropisomers: achieving stereoselectivity by exploiting the conformational preferences of aromatic amides*  
Jonathan Clayden, *Chem. Commun.*, 2004, 127-135.
92.  *$\beta$ -Lactams and  $\gamma$ -lactams by 4-exo-trig and 5-endo-trig anionic cyclisation of lithiated acrylamide derivatives*  
Jonathan Clayden, David W. Watson, Madeleine Helliwell and Mark Chambers, *Chem. Commun.*, 2003, 2582-2583.
91.  $\ddagger$ Book Review: "The Amide Linkage: Structural Significance in Chemistry, Biochemistry, and Materials Science"  
Ed. Arthur Greenberg, Curt M. Breneman and Joel F. Liebman (Wiley);  
Jonathan Clayden, *Angew. Chem., Int. Ed.*, 2003, **42**, 1788
90. *Stereospecific photochemical ring expansion of lithiated benzamides*  
Jonathan Clayden, Faye E. Knowles and Christel J. Menet, *J. Am. Chem. Soc.*, 2003, **125**, 9278-9279
89. *Variations in the solid-state, solution and theoretical structures of a laterally deprotonated aromatic tertiary amide*  
David R. Armstrong, Jonathan Clayden, David J. Linton, Paul Schooler and Andrew E. H. Wheatley, *Chem. Commun.* 2003, 1694-1695
88. *Stereospecific dearomatising cyclisation of tertiary  $\alpha$ -amidoorganolithiums*  
Jonathan Clayden, Faye E. Knowles and Christel J. Menet, *Synlett*, 2003, 1701-1703
87. *Synthesis of  $\alpha$ -methyl kainic acid by stereospecific lithiation-dearomatizing cyclization of a chiral benzamide*  
Jonathan Clayden, Faye E. Knowles and Christel J. Menet, *Tetrahedron Lett.*, 2003, **44**, 3397-3400
86. *2,3-Dihydroisoindolones by cyclisation and rearomatisation of lithiated benzamides*  
Jonathan Clayden and Christel J. Menet, *Tetrahedron Lett.*, 2003, **44**, 3059-3062
85. *Dearomatizing Cyclization of Arylsulfonylalkoxymethyl lithiums: A Route to the Podophyllotoxin Skeleton*  
Jonathan Clayden, Martin N. Kenworthy and Madeleine Helliwell, *Org. Lett.* 2003, **6**, 831-834.
84.  $\ddagger$ Book Review: "Organoboranes for Synthesis", P. V. Ramachandran and H. C. Brown.  
Jonathan Clayden, *J. Chem Soc. Perkin Trans. 1* 2002, 445
83. *Intermolecular dearomatising addition of organolithiums to N-benzoyl amides of 2,2,6,6-tetramethylpiperidine;*  
Jonathan Clayden, Yann J. Y. Foricher and Ho Kam Lam, *Eur. J. Org. Chem.* 2002, 3558-3565
82. *Carbolithiation of aromatic rings: cyclohexadienes from N-aroyle-2,2,6,6-tetramethylpiperidines;*  
Jonathan Clayden, Yann J. Y. Foricher and Ho Kam Lam, *Chem. Commun.* 2002, 2138-2139
81. *Enantioselective synthesis by lithiation to generate planar or axial chirality;*  
Jonathan Clayden, *Top. Organometal. Chem.* 2003, **5**, 251-286
80.  $\ddagger$ Organolithiums: Selectivity for Synthesis  
Jonathan Clayden, ISBN 0-08-043262-X, pub. Pergamon (Oxford) 2002
79. *Synthesis of (-)-Kainic Acid using Chiral Lithium Amides in an Asymmetric Dearomatizing Cyclization;*  
Jonathan Clayden, Christel J. Menet and Kirill Tchabanenko, *Tetrahedron*, 2002, **58**, 4727-4733
78. *Lithium-sulfoxide-lithium exchange for the asymmetric synthesis of atropisomers under thermodynamic control;*  
Jonathan Clayden, David Mitjans and Latifa H. Youssef, *J. Am. Chem. Soc.*, 2002, **124**, 5266-5267
77. *Atroposelectivity in the Electrophilic Substitution Reactions of Laterally Lithiated and Silylated Tertiary Amides;*  
Jonathan Clayden, Jennifer H. Pink, Neil Westlund and Christopher S. Frampton; *J. Chem Soc. Perkin Trans. 1* 2002, 901-917
76. *Dearomatising annelation of five-membered rings to naphthalenes by organolithium cyclisation;*  
Jonathan Clayden and Martin N. Kenworthy, *Org. Lett.*, 2002, **4**, 787-790.

75. Dearomatising disrotatory electrocyclic ring closure of lithiated *N*-benzoyloxazolidines;  
Jonathan Clayden, Savroop Purewal, Madeleine Helliwell and Simon J. Mantell, *Angew. Chemie. Int. Ed.*, 2002, **41**, 1049-1051 (*Angew. Chemie* 2002, **114**, 1091-1093)
74. "Meso-selective" functionalisation of *N*-benzyl- $\alpha$ -methylbenzylamine derivatives by  $\alpha$ -lithiation and alkylation;  
Ryan A. Bragg, Jonathan Clayden and Christel J. Menet, *Tetrahedron Lett.*, 2002, **43**, 1955-1960.
73. Lithiation and stereoselective transformations of 3-*aroyl*-2,2,4,4-tetramethyloxazolidines (TMO amides), a new class of acid-labile atropisomeric amides;  
Mark Anstiss, Jonathan Clayden, Alexander Grube and Latifa H. Youssef, *Synlett* 2002, 290-294.
72. Pathways for decomposition of THF by organolithiums: the role of HMPA;  
Jonathan Clayden and Samreen A. Yasin, *New J. Chem.* 2002, **26**, 191-192
71. Stereodynamics of bond rotation in tertiary aromatic amides;  
Ryan A. Bragg, Jonathan Clayden, Gareth A. Morris and Jennifer H. Pink, *Chem. Eur. J.* 2002, **8**, 1279-1289
70. Asymmetric deprotonation and dearomatising cyclisation of *N*-benzyl benzamides using chiral lithium amides: formal synthesis of (–)-kainic acid;  
Jonathan Clayden, Christel J. Menet and Darren J. Mansfield, *Chem. Commun.* 2002, 38-39.
69. Conformational preference and remote (1,10) stereocontrol in biphenyl-2,2'-dicarboxamides;  
Jonathan Clayden, Andrew Lund and Latifa H. Youssef, *Org. Lett.* 2001, **3**, 4133-4136
68. Stereospecificity and stereoselectivity in electrophilic substitution reactions of non- $\alpha$ -heterosubstituted organolithiums and stannanes: a rotationally restricted amide as an internal stereochemical marker;  
Jonathan Clayden, Madeleine Helliwell, Jennifer H. Pink and Neil Westlund, *J. Am. Chem. Soc.* 2001, **123**, 12449-12457
67. Dearomatising cyclisation of lithiated 1-naphthamides with a phenylglycinol-derived chiral auxiliary: asymmetric synthesis of an arylkainoid and a kainoid-like pyroglutamate;  
Ryan A. Bragg, Jonathan Clayden, Michael Bladon and Osamu Ichihara, *Tetrahedron Lett.*, 2001, **42**, 3411-3414.
66. Synthesis of a potent ( $\pm$ )-4-(2-hydroxyphenyl) analogue of the acromelic acids by dearomatising cyclisation of a lithiated *N*-*p*-methoxybenzyl-4-methoxy-1-naphthamide;  
Anjum Ahmed, Ryan A. Bragg, Jonathan Clayden and Kirill Tchabanenko, *Tetrahedron Lett.*, 2001, **42**, 3407-3410
65. Using amide conformation to "project" the stereochemistry of a (–)-ephedrine-derived oxazolidine: a pair of pseudoenantiomeric chiral amido-phosphine ligands;  
Jonathan Clayden, Lai Wah Lai and Madeleine Helliwell, *Tetrahedron: Asymmetry*, 2001, **12**, 695-698
64. (–)-Ephedrine as an auxiliary for the asymmetric synthesis of atropisomeric amides by dynamic resolution under thermodynamic control;  
Jonathan Clayden and Lai Wah Lai, *Tetrahedron Lett.*, 2001, **42**, 3163-3166
63. Asymmetric Synthesis of Enantiomerically Enriched Atropisomeric Amides by Desymmetrisation of *N,N*-Dialkylmesitamides;  
Jonathan Clayden, Paul Johnson and Jennifer H. Pink, *J. Chem. Soc., Perkin Trans. 1*, 2001, 371-375
62. Pyrrolidinone-fused Cyclohexenones by Regioselective Dearomatising Anionic Cyclisation of 2-, 3- or 4-Methoxybenzamides;  
Jonathan Clayden, Kirill Tchabanenko, Samreen A. Yasin and Michael D. Turnbull, *Synlett*, 2001, 302-304.
61. The First Crystallographic Evidence for the Structures of Ortholithiated Aromatic Tertiary Amides;  
Jonathan Clayden, Robert P. Davies, Mark A. Hendy, Ronald Snaith and Andrew E. H. Wheatley, *Angew. Chemie, Int. Ed.* 2001, **40**, 1238-1240 (*Angew. Chem.*, 2001, **110**, 2040-2042)
60. *N,N*-Diisopropyl-1-Naphthamide;  
Andrew D. Bond, Jonathan Clayden and Andrew E. H. Wheatley, *Acta Cryst.* 2001, **E57**, 292-294
59. Dearomatising Anionic Cyclisation of Substituted *N*-Cumyl-*N*-benzylbenzamides on Treatment with LDA: Synthesis of Partially Saturated Substituted Isoindolones;  
Jonathan Clayden, Christel J. Menet and Darren J. Mansfield, *Organic Letters*, 2000, **2**, 4229-4232.
58. Non-Biaryl Atropisomers: New Classes of Chiral Reagents, Auxiliaries and Ligands?;  
Jonathan Clayden, in *Organic Synthesis Highlights IV*, ed. H.-G. Schmalz, pub. Wiley-VCH 2000, pp. 48-52

57. *Using symmetry to monitor geared bond rotation in aromatic amides by dynamic NMR*;  
Ryan A. Bragg and Jonathan Clayden, *Organic Letters*, 2000, **2**, 3351-3354.
56. *Atropisomeric benzamides and naphthamides as chiral auxiliaries*;  
Jonathan Clayden, Madeleine Helliwell, Catherine McCarthy and Neil Westlund, *J. Chem. Soc., Perkin Trans. 1*, 2000, 3232-3249.
55. *Atropisomeric Amides as Chiral Ligands: Using (-)-Sparteine-Directed Enantioselective Silylation to Control the Conformation of a Stereogenic Axis*;  
Jonathan Clayden, Paul Johnson, Jennifer H. Pink and Madeleine Helliwell, *J. Org. Chem.*, 2000, **65**, 7033-7040
54. *Organic Chemistry*;  
Jonathan Clayden, Nick Greeves, Stuart Warren and Peter Wothers, ISBN 0-19-850356-6, pub. OUP, Oxford (2001)
53. *Axial Chirality in Xanthene-4,5-dicarboxamides: 1,9-Stereocontrol Mediated by Remote Interactions between Conformationally Constrained Amide Groups*;  
Jonathan Clayden, Martin N. Kenworthy, Latifa H. Youssef and Madeleine Helliwell, *Tetrahedron Lett.*, 2000, **41**, 5171-5174
52. *Atropisomeric Diastereoisomers from Nucleophilic Attack on 8-Acyl-1-Naphthamides*;  
Jonathan Clayden, Neil Westlund and Christopher S. Frampton *J. Chem. Soc., Perkin Trans. 1*, 2000, 1379-1385
51. *Atroposelective Attack of Nucleophiles on 2-Formyl-1-Naphthamides and their Derivatives: Chelation and Non-Chelation Control*;  
Jonathan Clayden, Catherine McCarthy, Neil Westlund and Christopher S. Frampton, *J. Chem. Soc., Perkin Trans. 1*, 2000, 1363-1378
50. *Atroposelective Attack of Nucleophiles and Electrophiles on 2-Acyl-1-Naphthamides and their Enolates*;  
Jonathan Clayden, Neil Westlund, Roy L. Beddoes and Madeleine Helliwell, *J. Chem. Soc., Perkin Trans. 1*, 2000, 1351-1362
49. *Dynamically Resolved peri-Substituted 2-Formyl Naphthamides: A New Class of Atropisomeric Chiral Auxiliary*;  
Jonathan Clayden, Catherine McCarthy and John G. Cumming, *Tetrahedron Lett.*, 2000, **41**, 3279-3283
48. *Synthesis of (±)-Kainic acid by Dearomatising Cyclisation of a Lithiated N-Benzyl p-Anisamide*;  
Jonathan Clayden and Kirill Tchabanenko, *J. Chem. Soc., Chem. Comm.*, 2000, 317-318
47. *1,3,4,5-Tetrahydroazepin-2-ones by Dearomatising Anionic Cyclisation of N-Allyl-1-Naphthamides*;  
Anjum Ahmed, Jonathan Clayden and Michael Rowley, *Synlett.*, 1999, 1954-1956
46. *Diastereoselective Ortholithiation and Conformational Control in Stereospecific Dearomatising Anionic Cyclisations*;  
Ryan A. Bragg and Jonathan Clayden, *Tetrahedron Lett.*, 1999, **40**, 8327-8331
45. *Stereospecific Formation of Tetrasubstituted Centres from Trisubstituted Centres during Dearomatising Anionic Cyclisations*;  
Ryan A. Bragg and Jonathan Clayden, *Tetrahedron Lett.*, 1999, **40**, 8323-8326
44. *Perilithiation and the Synthesis of 8-Substituted-1-Naphthamides*;  
Jonathan Clayden, Christopher S. Frampton, Catherine McCarthy and Neil Westlund, *Tetrahedron*, 1999, **55**, 14161-14184
43. *Bonded peri-Interactions Govern the Rate of Racemisation of Atropisomeric 8-Substituted 1-Naphthamides*;  
Jonathan Clayden, Catherine McCarthy and Madeleine Helliwell, *J. Chem. Soc., Chem. Comm.*, 1999, 2059-2060
42. *Diastereoisomeric Atropisomers of peri-Substituted Naphthamides: Synthesis, Stereoselectivity and Stability*;  
Jonathan Clayden, Neil Westlund and Francis X. Wilson, *Tetrahedron Lett.*, 1999, **40**, 7883-7887
41. *Enantioselective Synthesis of Atropisomeric Amides by Dynamic Resolution: Thermodynamic Control with a Proline-Derived Diamine Resolving Agent*;  
Jonathan Clayden and Lai Wah Lai, *Angew. Chemie, Int. Ed.*, 1999, **38**, 2556-2558  
(*Enantioselektive Synthese von atropisomeren Amidinen durch dynamische Racematspaltung: thermodynamische Kontrolle mit einem aus Prolin erhaltenen Diamin als Auxiliar*, Jonathan Clayden und Lai Wah Lai, *Angew. Chem.* 1999, **111**, 2755-2757)
40. *Diastereoselective Nucleophilic Additions to Vinyl Phosphine Oxides*;  
Björn Bartels, Jonathan Clayden, Concepcion Gonzalez Martín, Adam Nelson, Matthew G. Russell and Stuart Warren, *J. Chem. Soc., Perkin Trans. 1*, 1999, 1807-1822

39. *Synthesis of Atropisomeric Diamides with Remotely Related Stereogenic Axes by Stereoselective Additions to Imines*;  
Jonathan Clayden, Neil Westlund and Francis X. Wilson, *Tetrahedron Lett.*, 1999, **40**, 3331-3334
38. *Synthesis of Atropisomeric 2-(1-Aminoalkyl)-1-naphthamides by Stereoselective Addition of Organolithiums to a 2-Imino-1-naphthamide*;  
Jonathan Clayden, Neil Westlund and Francis X. Wilson, *Tetrahedron Lett.*, 1999, **40**, 3329-3330
37. *Book Review: "Named Organic Reactions": T. Laue and A. Plagens (Wiley)*;  
Jonathan Clayden, *Angew. Chem., Int. Ed.*, 1999, **38**, 1309
36. *Meldola Medal Feature Article*;  
Jonathan Clayden, *J. Chem. Soc., Perkin Trans. 1*, 1999, issue 2, vii
35. *Dearomatising Cyclisations of Lithiated N-Benzyl Benzamides*;  
Anjum Ahmed, Jonathan Clayden and Samreen A. Yasin, *J. Chem. Soc., Chem. Comm.*, 1999, 231-232
34. *Controlling the Regioselectivity of Lithiation using Kinetic Isotope Effects: Deuterium as a Protecting Group for Carbon*;  
Jonathan Clayden, Jennifer H. Pink, Neil Westlund and Francis X. Wilson, *Tetrahedron Lett.*, 1998, **39**, 8377-8380.
33. *Barriers to Rotation about the Chiral Axis of Tertiary Aromatic Amides*;  
Anjum Ahmed, Ryan A. Bragg, Jonathan Clayden, Lai Wah Lai, Catherine McCarthy, Jennifer H. Pink, Neil Westlund and Samreen A. Yasin, *Tetrahedron*, 1998, **54**, 13277-13294
32. *Stereocontrol with Rotationally Restricted Amides*;  
Jonathan Clayden, *Synlett.*, 1998, 810-816
31. *Anion Translocation in Organolithiums: A Mechanism for the Lithiation and Cyclisation of Tertiary Naphthamides*;  
Anjum Ahmed, Jonathan Clayden and Michael Rowley, *Tetrahedron Lett.*, 1998, **39**, 6103-6106
30. *Concerted Rotation in a Tertiary Aromatic Amide: Towards a Simple Molecular Gear*;  
Jonathan Clayden and Jennifer H. Pink, *Angew. Chem., Int. Ed. Engl.*, 1998, **37**, 1937-1939. (*Konzertierte Rotation in einem tertiären aromatischen Amid: auf dem Weg zu einem einfachen molekularen Getriebe*; Jonathan Clayden und Jennifer H. Pink, *Angew. Chem.*, 1998, **110**, 2040-2042)
29. *(S)-2-(Dibenzylamino)-3-phenylpropanal as a Chiral Auxiliary: A New Strategy for the Asymmetric Synthesis of 2-Substituted Alcohols*;  
Jonathan Clayden, Catherine McCarthy and John G. Cumming, *Tetrahedron: Asymm.*, 1998, **9**, 1427-1440
28. *Anionic Cyclisations of an N-Benzyl naphthamide: A Route to Benzof[iso]indolinones*;  
Anjum Ahmed, Jonathan Clayden and Michael Rowley, *J. Chem. Soc., Chem. Comm.*, 1998, 297-298
27. *Conformationally Interlocked Amides: Remote Asymmetric Induction by Mechanical Transfer of Stereochemical Information*;  
Jonathan Clayden, Jennifer H. Pink and Samreen A. Yasin, *Tetrahedron Lett.*, 1998, **39**, 105-108
26. *Control of Stereochemistry with Phosphine Oxides: Asymmetric Synthesis of 4-Alkenyloxazolidin-2-ones with 1,4-Related Stereogenic Centres Across a Double Bond*;  
Jonathan Clayden and Stuart Warren, *J. Chem. Soc., Perkin Trans. 1*, 1998, 2923-2931
25. *Remote Stereocontrol using Rotationally Restricted Amides: 1,5-Asymmetric Induction*;  
Jonathan Clayden, Megan Darbyshire, Jennifer H. Pink, Neil Westlund and Francis X. Wilson, *Tetrahedron Lett.*, 1997, **38**, 8587-8590
24. *Configurational Stability and Stereospecificity in the Reactions of Amide-Stabilised Organolithiums: A Non-Stereospecific Tin-Lithium Exchange*;  
Jonathan Clayden and Jennifer H. Pink, *Tetrahedron Lett.*, 1997, **38**, 2565-2568
23. *Atroposelectivity in the Reactions of Laterally Lithiated Tertiary Amides*;  
Jonathan Clayden and Jennifer H. Pink, *Tetrahedron Lett.*, 1997, **38**, 2561-2564
22. *Non-Biaryl Atropisomers: New Classes of Chiral Reagents, Auxiliaries and Ligands?*;  
Jonathan Clayden, *Angew. Chem., Int. Ed. Engl.*, 1997, **36**, 949-951. (*Nicht-Biaryl-Atropisomere: eine neue Klasse von chiralen Reagenten, Hilfsstoffen und Liganden?*; Jonathan Clayden, *Angew. Chem.*, 1997, **109**, 986-988)

21. *Atroposelectivity in the Reactions of Ortholithiated Aromatic Tertiary Amides with Aldehydes*; Peter Bowles, Jonathan Clayden, Madeleine Helliwell, Catherine McCarthy, Matthew Tomkinson and Neil Westlund, *J. Chem. Soc., Perkin Trans. 1*, 1997, 2607-2616
20. *Diastereoselective Reactions of Optically Active  $\gamma$ -Substituted Vinyl Phosphine Oxides*; Jonathan Clayden, Adam Nelson and Stuart Warren, *Tetrahedron Lett.*, 1997, **38**, 3471-3474
19. *Asymmetric Induction using Atropisomers: Diastereoselective Additions to 2-Acyl-1-Naphthamides*; Jonathan Clayden, Neil Westlund and Francis X. Wilson, *Tetrahedron Lett.*, 1996, **37**, 5577-5580
18. *Stereochemical Control in Organic Synthesis Using the Diphenylphosphinoyl ( $Ph_2PO$ ) Group*; Jonathan Clayden and Stuart Warren, *Angew. Chem. Int. Ed. Engl.*, 1996, **35**, 241-270 (*Stereokontrolle in der organischen Synthese durch Verwendung der Diphenylphosphorylgruppe*; Jonathan Clayden und Stuart Warren, *Angew. Chem.*, 1996, **108**, 261)
17. *Diastereoisomeric Atropisomers from the Addition of Lithiated  $N,N$ -Dialkyl-1-Naphthamides to Aldehydes*; Peter Bowles, Jonathan Clayden and Matthew Tomkinson, *Tetrahedron Lett.*, 1995, **36**, 9219-9222
16. *Carbenoids from Primary Alkyl Chlorides by Heteroatom-Assisted Metallation*; Jonathan Clayden and Marc Julia, *Synlett*, 1995, 103-104
15. *Nickel-Catalysed Substitutions of Aryl *tert*-Butyl Sulfones with Organometallic Reagents: Synthesis of *ortho*-Substituted Unsymmetrical Biaryls*; Jonathan Clayden, J. Jonathan A. Cooney and Marc Julia, *J. Chem. Soc., Perkin Trans. 1*, 1995, 7-14
14. *Control over Absolute (*R*, *S*), Relative (*syn*, *anti*) and Geometrical (*E*, *Z*) Stereochemistry in the Synthesis of Allylically Substituted Alkenes from Diphenylphosphinoyl Epoxy Alcohols*; Jonathan Clayden, Andrew B. McElroy and Stuart Warren, *J. Chem. Soc., Perkin Trans. 1*, 1995, 1913-1934
13. *Homoallylic Alcohols from Samarium Diiodide-Mediated Coupling of Allylic Sulfones with Carbonyl Compounds*; Jonathan Clayden and Marc Julia, *J. Chem. Soc., Chem. Comm.*, 1994, 2261-2262
12. *Allylic Sulfones as Allyl Anion Equivalents: Homoallylic Alcohols from Metal Catalysed Reactions of Sulfones with Aldehydes and Ketones*; Jonathan Clayden and Marc Julia, *J. Chem. Soc., Chem. Comm.*, 1994, 1905-1906
11. *Asymmetric Epoxidation and Kinetic Resolution of Allylic Phosphine Oxides*; Jonathan Clayden and Stuart Warren, *J. Chem. Soc., Perkin Trans. 1*, 1994, 2811-2823
10. *Diastereoselective Epoxidation of Allylic Phosphine Oxides*; Jonathan Clayden, Eric W. Collington, Ernst Egert, Andrew B. McElroy and Stuart Warren, *J. Chem. Soc., Perkin Trans. 1*, 1994, 2801-2810
9. *Additions of Lithiated  $\beta$ -Hydroxy Alkyldiphenylphosphine Oxides to Aldehydes, and Palladium(II)-Catalysed Allylic Transpositions of Bis-Acetoxy Alkyldiphenylphosphine Oxides; Synthesis of *O*-Protected (*E,E*)- and (*E,Z*)-Hepta-2,4-dien-1-ol and of Alkyldiphenylphosphine Oxides Bearing Remotely Related Chiral Centres*; Jonathan Clayden and Stuart Warren, *J. Chem. Soc., Perkin Trans. 1*, 1994, 1529-1539
8. **ortho*-Substituted Unsymmetrical Biaryls from Aryl *t*-Butyl Sulphones*; Jonathan Clayden and Marc Julia, *J. Chem. Soc., Chem. Comm.*, 1993, 1682-1683
7. *The Synthesis of  $\delta$ -Hydroxy Allylic Phosphine Oxides by Palladium(II)-Catalysed Allylic Acetate Transposition*; Jonathan Clayden and Stuart Warren, *J. Chem. Soc., Perkin Trans. 1*, 1993, 2913-2923
6. *Stereochemical Control (*E/Z* and *syn/anti*) by the Diphenylphosphinoyl Group in the Synthesis of Allylic Alcohols by Allylic Rearrangement and by 1,4-Diastereoselective Reduction of Enones*; Jonathan Clayden, Eric W. Collington, Jason Elliott, Stephen J. Martin, Andrew B. McElroy, Stuart Warren and David Waterson, *J. Chem. Soc., Perkin Trans. 1*, 1993, 1849-1859
5.  $\ddagger$  *Kinetic Resolution of  $\delta$ -Hydroxy Allylic Phosphine Oxides: A Stereocontrolled Route to Allylically Functionalised Systems (poster abstract)*; Jonathan Clayden, Eric W. Collington and Stuart Warren, *Phosphorus, Sulfur and Silicon*, 1993, **77**, 187
4. *Alkenyl Oxazolidinones by Stereoselective Epoxidation of  $\delta$ -Hydroxy Allylic Phosphine Oxides: Synthesis of Any Isomer (*RR*, *RS*, *SR* or *SS*; *E* or *Z*) Bearing 1,4-Related Chiral Centres Across a Double Bond*; Jonathan Clayden, Eric W. Collington, R. Brian Lamont and Stuart Warren, *Tetrahedron Lett.*, 1993, **34**, 2203-2206



3. Stereocontrolled Synthesis of *R* or *S*, *E* or *Z* Unsaturated  $\alpha$ -Amino Acids by Enantio- and Diastereoselective Epoxidation of  $\delta$ -Hydroxy Allylic Phosphine Oxides;  
Jonathan Clayden, Eric W. Collington and Stuart Warren, *Tetrahedron Lett.*, 1993, **34**, 1327-1330
2. Asymmetric Epoxidations and Kinetic Resolutions of  $\delta$ -Hydroxy Allylic Phosphine Oxides;  
Jonathan Clayden, Eric W. Collington and Stuart Warren, *Tetrahedron Lett.*, 1992, **33**, 7043-7046
1. The Synthesis of  $\delta$ -Hydroxy Allylic Phosphine Oxides by Palladium(II)-Catalysed Allylic Transposition;  
Jonathan Clayden, Eric W. Collington and Stuart Warren, *Tetrahedron Lett.*, 1992, **33**, 7039-7042