

2021

237.) Pinglu Zhang, Nobuya Tsuji, Jie Ouyang and Benjamin List*
Strong and Confined Acids Catalyze Asymmetric Intramolecular Hydroarylations of Unactivated Olefins with Indoles
J. Am. Chem. Soc., **2021**, *143*, xx–xx.

2020

236.) Jie Ouyang, Hanyong Bae, Samuel Jordi, Quang Minh Dao, Sandro Dossenbach, Stefanie Dehn, Julia Beatrice Lingnau, Chandra Kanta De, Philip Kraft and Benjamin List*
The Odorous Principle of Vetiver Oil, Unveiled by Chemical Synthesis
Angew. Chem. Int. Ed., **2020**, *59*, xx–xx.

235.) Zhipeng Zhang*, Martin Klussmann and Benjamin List
Kinetic Study of Disulfonimide-Catalyzed Cyanosilylation of Aldehydes by Using a Method of Progress Rates
Synlett, **2020**, *31*, 1593–1597.

234.) Benjamin Mitschke, Mathias Turberg and Benjamin List*
Confinement as a Unifying Element in Selective Catalysis
Chem, **2020**, *6*, 2515–2532.

233.) Roberta Properzi, Philip S. J. Kaib, Markus Leutzsch, Gabriele Pupo, Raja Mitra, Chandra Kanta De, Lijuan Song, Peter R. Schreiner and Benjamin List*
Catalytic enantiocontrol over a non-classical carbocation
Nat. Chem., **2020**, *12*, 1174–1179.

232.) Gabriela Guillermina Gerosa, Sebastian Armin Schwengers, Rajat Maji, Chandra Kanta De* and Benjamin List*
Homologation of the Fischer Indolization: A Quinoline Synthesis via Homo-Diaza-Cope Rearrangement
Angew. Chem. Int. Ed., **2020**, *59*, 20485–20488.

231.) Vijay N. Wakchaure, Carla Obradors and Benjamin List*
Chiral Brønsted Acids Catalyze Asymmetric Additions to Substrates that Are Already Protonated: Highly Enantioselective Disulfonimide-Catalyzed Hantzsch Ester Reductions of NH–Imine Hydrochloride Salts
Synlett, **2020**, *31*, 1707–1712.

230.) Hui Zhou, Han Yong Bae, Markus Leutzsch, Jennifer L. Kennemur, Diane Bécart, and Benjamin List*
The Silicon–Hydrogen Exchange Reaction: A Catalytic σ -Bond Metathesis Approach to the Enantioselective Synthesis of Enol Silanes
J. Am. Chem. Soc., **2020**, *142*, 13695–13700.

229.) Diana Yepes, Frank Neese, Benjamin List and Giovanni Bistoni*
Unveiling the Delicate Balance of Steric and Dispersion Interactions in Organocatalysis Using High-Level Computational Methods
J. Am. Chem. Soc., **2020**, *142*, 3613–3625.

228.) Alois Fürstner, Benjamin List, Tobias Ritter, Ferdi Schüth, Frank Neese
Walter Thiel (1949–2019)
Angew. Chem. Int. Ed., **2020**, *59*, 1382–1383.

227.) Santanu Ghosh, Sayantani Das, Chandra Kanta De, Diana Yepes, Frank Neese, Giovanni Bistoni, Markus Leutzsch and Benjamin List*
Strong and Confined Acids Control Five Stereogenic Centers in Catalytic Asymmetric Diels–Alder Reactions of Cyclohexadienones with Cyclopentadiene
Angew. Chem. Int. Ed., **2020**, *59*, 12347–12351.

2019

226.) Lucas Schreyer, Roberta Properzi and Benjamin List*
IDPi Catalysis
Angew. Chem. Int. Ed., **2019**, *58*, 12761–12777.

225.) Francesca Mandrelli, Aurélie Blond, Thomas James, Hyejin Kim and Benjamin List*
Deracemizing α -Branched Carboxylic Acids by Catalytic Asymmetric Protonation of bis-Silyl Ketene
Acetals with Water or Methanol
Angew. Chem. Int. Ed., **2019**, *58*, 11479–11482.

224.) Denis Höfler, Richard Goddard, Nils Nöthling, Benjamin List*
A Dendralenic C–H Acid
Synlett, **2019**, *30*, 433–436.

223.) Jie Ouyang, Jennifer L. Kennemur, Chandra Kanta De, Christophe Farès, Benjamin List*
Strong and Confined Acids Enable a Catalytic Asymmetric Nazarov Cyclization of Simple Divinyl Ketones
J. Am. Chem. Soc., **2019**, *141*, 3414–3418.

222.) Hyejin Kim, Gabriela Gerosa, Jonas Aronow, Pinar Kasaplar, Jie Ouyang, Julia B. Lingnau, Paul
Guerry, Christophe Farès, Benjamin List*
A multi-substrate screening approach for the identification of a broadly applicable Diels–Alder catalyst
Nat. Commun., **2019**, *10*, 770, 1–6.

221.) Grigory A. Shevchenko, Gabriele Pupo, Benjamin List*:
Direct Asymmetric α -Hydroxylation of Cyclic α -Branched Ketones through Enol Catalysis
Synlett, **2019**, *30*, 49–53.

2018

220.) Popovic, J.; Höfler, D.; Melchior, J. P.; Münchinger, A.; List, B.; Maier, J.
High Lithium Transference Number Electrolytes Containing Tetratrilfyllpropene's Lithium Salt.
J. Phys. Chem. Lett. **2018**, *9*, 5116–5120.

219.) Lucas Schreyer, Philip S. J. Kaib, Vijay N. Wakchaure, Carla Obradors, Roberta Properzi, Sunggi
Lee, Benjamin List*:
Confined acids catalyze asymmetric single aldolizations of acetaldehyde enolates
Science, **2018**, *362*, 216–219.

218.) Grigory A. Shevchenko, Stefanie Dehn and Benjamin List*:
Brønsted Acid Mediated Direct α -Hydroxylation of Cyclic α -Branched Ketones
Synlett, **2018**, *29*, 2298–3000.

217.) Tim Gatzmeier, Mathias Turberg, Diana Yepes, Youwei Xie, Frank Neese,
Giovanni Bistoni and Benjamin List*:
Scalable and Highly Diastereo- and Enantioselective Catalytic Diels–Alder Reaction of α,β -Unsaturated
Methyl Esters
J. Am. Chem. Soc., **2018**, *140*, 12671–12676.

216.) Sunggi Lee, Han Yong Bae and Benjamin List*:
Can a Ketone Be More Reactive than an Aldehyde? Catalytic Asymmetric Synthesis of Substituted
Tetrahydrofurans
Angew. Chem. Int. Ed., **2018**, *57*, 12162–12166.

215.) Han Yong Bae and Benjamin List*:
Triflimide: An Overlooked High-Performance Catalyst of the Mukaiyama Aldol Reaction of Silyl Ketene
Acetals with Ketones
Chem. Eur. J., **2018**, *24*, 13767–13772

214.) Han Yong Bae, Denis Höfler, Philip S. J. Kaib, Pinar Kasaplar, Chandra Kanta De, Arno Döhring,
Sunggi Lee, Karl Kaupmees, Ivo Leito and Benjamin List*:
Approaching sub-ppm-level asymmetric organocatalysis of a highly challenging and scalable carbon–
carbon bond forming reaction
Nat. Chem., **2018**, *10*, 888–894.

213.) Grigory A. Shevchenko, Barry Oppelaar and Benjamin List*:
An Unexpected α -Oxidation of Cyclic Ketones with 1,4-Benzoquinone via Enol Catalysis
Angew. Chem. Int. Ed., **2018**, *57*, 10756–10759.

212.) Denis Höfler, Richard Goddard, Julia B. Lingnau, Nils Nöthling and Benjamin List*:
A Purely Organic Tricarbanion
Angew. Chem. Int. Ed., **2018**, *57*, 8326–8329.

211.) Nobuya Tsuji, Jennifer L. Kennemur, Thomas Buyck, Sunggi Lee, Sébastien Prévost, Philip S. J. Kaib, Dmytro Bykov, Christophe Farès and Benjamin List*:
Activation of olefins via asymmetric Brønsted acid catalysis
Science, **2018**, *359*, 1501–1505.

210.) Tim Gatzemeier, Philip S. J. Kaib, Julia B. Lingnau, Richard Goddard and Benjamin List*:
The Catalytic Asymmetric Mukaiyama–Michael Reaction of Silyl Ketene Acetals with α,β -Unsaturated Methyl Esters
Angew. Chem. Int. Ed., **2018**, *57*, 2464–2468.

2017

209.) Benjamin List*:
Crowd-based peer review can be good and fast
Nature, **2017**, *546*, 9.

208.) José Tiago Menezes Correia, Benjamin List* and Fernando Coelho*:
Catalytic Asymmetric Conjugate Addition of Indolizines to α,β -Unsaturated Ketones
Angew. Chem. Int. Ed., **2017**, *56*, 7967–7970.

207.) Luping Liu, Hyejin Kim, Youwei Xie, Christophe Farès, Philip S. J. Kaib, Richard Goddard, and Benjamin List*:
Catalytic Asymmetric [4+2]-Cycloaddition of Dienes with Aldehydes
J. Am. Chem. Soc., **2017**, *139*, 13656–13659.

206.) Chandra Kanta De, Raja Mitra and Benjamin List*:
Design and Synthesis of Enantiopure Tetrakis(pentafluorophenyl) Borate Analogues for Asymmetric Counteranion Directed Catalysis
Synlett, **2017**, *28*, 2435–2438.

205.) Denis Höfler and Benjamin List*:
Schneller und weniger aufwendig begutachten
Nachrichten aus der Chemie, **2017**, *65*, 1129–1131

204.) Sunggi Lee, Philip S. J. Kaib and Benjamin List*:
N-Triflylphosphorimidoyl Trichloride: A Versatile Reagent for the Synthesis of Strong Chiral Brønsted Acids
Synlett, **2017**, *28*, 1478–480.

203.) Benjamin List*, Chandra Kanta De, Qinggang Wang:
Methods for the Preparation of Obeticholic acid and derivatives thereof
PCT. Int. Ap., **2017**, *WO2017184598A1*.

202.) Ji Hye Kim, Aurélien Tap, Luping Liu and Benjamin List*:
Catalytic Asymmetric Thioacetalization of Aldehydes
Synlett, **2017**, *28*, 333–336.

201.) Youwei Xie and Benjamin List*:
Catalytic Asymmetric Intramolecular [4+2] Cycloaddition of In Situ Generated *ortho*-Quinone Methides
Angew. Chem. Int. Ed., **2017**, *56*, 4936–4940.

200.) Sunggi Lee, Philip S. J. Kaib and Benjamin List*:
Asymmetric Catalysis via Cyclic, Aliphatic Oxocarbenium Ions
J. Am. Chem. Soc., **2017**, *139*, 2156–2159.

199.) Benjamin List*, Philip S. J. Kaib, Lucas Schreyer, Sunggi Lee, Roberta Properzi, Luping Liu:
Chiral phosphoramidimides and derivatives thereof
PCT. Int. Ap., **2017**, *WO2017037141A1*.

198.) Benjamin List* and Philip S. J. Kaib:
Chiral phosphoramidimides and derivatives thereof
European Patent., **2017**, *EP3138845A1*.

197.) Sayantani Das, Nilanjana Majumdar, Chandra Kanta De, Dipti Sankar Kundu, Arno Döhring, Anika Garczynski and Benjamin List*:
Asymmetric Catalysis of the Carbonyl-Amine Condensation: Kinetic Resolution of Primary Amines
J. Am. Chem. Soc., **2017**, *139*, 1357–1359.

196.) Denis Höfler, Manuel van Gemmeren, Petra Wedemann, Karl Kaupmees, Ivo Leito, Markus Leutzsch, Julia B. Lingnau, and Benjamin List*:
1,1,3,3-Tetratrimethylpropene (TTP): A Strong, Allylic C–H Acid for Brønsted and Lewis Acid Catalysis
Angew. Chem. Int. Ed., **2017**, *56*, 1411–1415.

2016

195.) Vijay N. Wakchaure and Benjamin List*:
Catalytic Asymmetric Reductive Condensation of N–H Imines: Synthesis of C₂-Symmetric Secondary Amines
Angew. Chem. Int. Ed., **2016**, *55*, 15775–15778.

194.) Youwei Xie, Gui-Juan Cheng, Sunggi Lee, Philip S. J. Kaib, Walter Thiel and Benjamin List*:
Catalytic Asymmetric Vinylogous Prins Cyclization: A Highly Diastereo- and Enantioselective Entry to Tetrahydrofurans
J. Am. Chem. Soc., **2016**, *138*, 14538–14541.

193.) Mattia Ricardo Monaco, Daniele Fazzi, Nobuya Tsuji, Markus Leutzsch, Saihu Liao, Walter Thiel and Benjamin List*:
The Activation of Carboxylic Acids via Self-Assembly Asymmetric Organocatalysis: A Combined Experimental and Computational Investigation
J. Am. Chem. Soc., **2016**, *138*, 14740–14749.

192.) Philip S. J. Kaib, Lucas Schreyer, Sunggi Lee, Roberta Properzi and Benjamin List*:
Extremely Active Organocatalysts Enable a Highly Enantioselective Addition of Allyltrimethylsilane to Aldehydes
Angew. Chem. Int. Ed., **2016**, *55*, 13200–13203.

191.) Luping Liu†, Philip S. J. Kaib†, Aurélien Tap, and Benjamin List*:
A General Catalytic Asymmetric Prins Cyclization
J. Am. Chem. Soc., **2016**, *138*, 10822–10825.

190.) Zhipeng Zhang, Han Yong Bae, Joyram Guin, Constantinos Rabalakos, Manuel van Gemmeren, Markus Leutzsch, Martin Klussmann and Benjamin List*:
Asymmetric counteranion-directed Lewis acid organocatalysis for the scalable cyanosilylation of aldehydes
Nat. Commun., **2016**, *7*, 12478, 1–8.

189.) Sayantani Das, Luping Liu, Yiyang Zheng, M. Wasim Alachraf, Walter Thiel*, Chandra Kanta De* and Benjamin List*:
Nitrated Confined Imidodiphosphates Enable a Catalytic Asymmetric Oxa-Pictet–Spengler Reaction
J. Am. Chem. Soc., **2016**, *138*, 9429–9432.

188.) Aurélien Tap, Aurélie Blond, Vijay N. Wakchaure and Benjamin List*:
Chiral Allenes via Alkynylogous Mukaiyama Aldol Reaction
Angew. Chem. Int. Ed., **2016**, *55*, 8962–8965.

187.) Lisa Kötzner, Markus Leutzsch, Sonja Sievers, Sumersing Patil, Herbert Waldmann, Yiyang Zheng, Walter Thiel and Benjamin List*:
The Organocatalytic Approach to Enantiopure 2H- and 3H- Pyrroles: Inhibitors of the Hedgehog Signaling Pathway
Angew. Chem. Int. Ed., **2016**, *55*, 7693–7697.

186.) Saihu Liao, Markus Leutzsch, Mattia Riccardo Monaco and Benjamin List*:
Catalytic Enantioselective Conversion of Epoxides to Thiiranes
J. Am. Chem. Soc., **2016**, *138*, 5230–5233.

- 185.) Gabriele Pupo, Roberta Properzi and Benjamin List*:
Asymmetric Catalysis with CO₂: The Direct α -Allylation of Ketones.
Angew. Chem. Int. Ed., 2016, 55, 6099–6102.
- 184.) Thomas Mayer-Gall, Ji-Woong Lee, Klaus Opwis, Benjamin List, Jochen S. Gutmann:
Textile Catalysts—An unconventional approach towards heterogeneous catalysis
ChemCatChem., 2016, 8, 1428–1436.
- 183.) Tim Gatzemeier*, Manuel van Gemmeren*, Youwei Xie, Denis Höfler, Markus Leutzsch and Benjamin List*:
Asymmetric Lewis acid organocatalysis of the Diels–Alder reaction by a silylated C–H acid
Science, 2016, 351, 949–952.
- 182.) Mattia Riccardo Monaco, Gabriele Pupo and Benjamin List*:
Phosphoric Acid Based Heterodimers in Asymmetric Catalysis
Synlett, 2016, 27, 1027–1040.
- 181.) Mattia Riccardo Monaco, Roberta Properzi and Benjamin List*:
An Approach to Highly Hindered BINOL Phosphates
Synlett, 2016, 27, 591–594.
- 180.) Philip S. J. Kaib and Benjamin List*:
Highly Acidic BINOL-Derived Phosphoramidimides and their Application in the Brønsted Acid Catalyzed Synthesis of α -Tocopherol.
Synlett, 2016, 27, 156–158.

2015

- 179.) Luping Liu, Markus Leutzsch, Yiyang Zheng, M. Wasim Alachraf, Walter Thiel and Benjamin List*:
Confined Acid-Catalyzed Asymmetric Carbonyl–Ene Cyclization.
J. Am. Chem. Soc., 2015, 137, 13268–13271.
- 178.) Vijay N. Wakchaure, Philip S. J. Kaib, Markus Leutzsch and Benjamin List*:
Disulfonimide-Catalyzed Asymmetric Reduction of *N*-Alkyl Imines.
Angew. Chem. Int. Ed., 2015, 54, 11852–11856.
- 177.) Thomas James, Manuel van Gemmeren and Benjamin List*:
Development and Applications of Disulfonimides in Enantioselective Organocatalysis.
Chem. Rev., 2015, 115, 9388–9409.
- 176.) Christian Merten,* Corina H. Pollok, Saihu Liao and Benjamin List*:
Stereochemical Communication within a Chiral Ion Pair Catalyst.
Angew. Chem. Int. Ed., 2015, 54, 8841–8845.
- 175.) Grigory A. Shevchenko, Gabriele Pupo and Benjamin List*:
Catalytic Asymmetric α -Amination of α -Branched Ketones via Enol Catalysis.
Synlett, 2015, 26, 1413–1416.
- 174.) Gavin Chit Tsui, Luping Liu and Benjamin List*:
The Organocatalytic Asymmetric Prins Cyclization.
Angew. Chem. Int. Ed., 2015, 54, 7703–7706.
- 173.) Shenlin Huang, Lisa Kötzner, Chandra Kanta De and Benjamin List*:
Catalytic Asymmetric Dearomatizing Redox Cross Coupling of Ketones with Aryl Hydrazines Giving 1,4-Diketones.
J. Am. Chem. Soc., 2015, 137, 3446–3449.
- 172.) Kengo Hyodo, Shikha Gandhi, Manuel van Gemmeren and Benjamin List*:
Brønsted Acid Catalyzed Asymmetric Silylation of Alcohols.
Synlett, 2015, 26, 1093–1095.
- 171.) Qinggang Wang and Benjamin List*:
A Mukaiyama–Claisen Approach to 3,5-Diketo Esters.
Synlett, 2015, 26, 1525–1527.

170.) Qinggang Wang and Benjamin List*:
Disulfonimide-Catalyzed Asymmetric Synthesis of δ -Amino- β -Keto Esters.
Synlett, **2015**, 26, 807–809.

169.) Ji Hye Kim, Ilija Čorić, Chiara Palumbo and Benjamin List*:
Resolution of Diols via Catalytic Asymmetric Acetalization.
J. Am. Chem. Soc., **2015**, 137, 1778–1781.

168.) Irene Felker, Gabriele Pupo, Philip Kraft and Benjamin List*:
Design and Enantioselective Synthesis of Cashmeran Odorants by Using “Enol Catalysis”.
Angew. Chem. Int. Ed., **2015**, 54, 1960–1964.

167.) Joyram Guin, Qinggang Wang, Manuel van Gemmeren and Benjamin List*:
The Catalytic Asymmetric Abramov Reaction
Angew. Chem. Int. Ed., **2015**, 54, 355–358.

2014

166.) Mattia Riccardo Monaco, Sébastien Prévost and Benjamin List*:
Catalytic Asymmetric Synthesis of Thiols.
J. Am. Chem. Soc. **2014**, 136 (49), 16982-16985.

165.) Qinggang Wang, Manuel van Gemmeren and Benjamin List*:
Asymmetric Disulfonimide-Catalyzed Synthesis of δ -Amino- β -Ketoester Derivatives by Vinylogous Mukaiyama–Mannich Reactions.
Angew. Chem. Int. Ed. **2014**, 53 (49), 13592-13595.

164.) Benjamin List*:
Catalytic Processes that Changed the World: 100 Years Max-Planck-Institut für Kohlenforschung.
Angew. Chem. Int. Ed., **2014**, 53, 8528-8530.

163.) Sébastien Prévost, Nathalie Dupré, Markus Leutzsch, Qinggang Wang, Vijay Wakchaure and Benjamin List*:
Catalytic Asymmetric Torgov Cyclization: A Concise Total Synthesis of (+)-Estrone.
Angew. Chem. Int. Ed., **2014**, 53 (33), 8770-8773.

162.) Mattia Riccardo Monaco, Sébastien Prévost and Benjamin List*:
Organocatalytic Asymmetric Hydrolysis of Epoxides.
Angew. Chem. Int. Ed., **2014**, 53 (31), 8142-8145.

161.) Mattia Riccardo Monaco, Belén Poladura, Miriam Diaz de Los Bernardos, Markus Leutzsch, Richard Goddard and Benjamin List*:
Activation of Carboxylic Acids in Asymmetric Organocatalysis.
Angew. Chem. Int. Ed., **2014**, 53 (27), 7063-7067.

160.) Lars Ratjen, Manuel van Gemmeren, Fabio Pesciaioli and Benjamin List*:
Towards High-Performance Lewis Acid Organocatalysis.
Angew. Chem. Int. Ed., **2014**, 53 (33), 8765-8769.

159.) Lisa Kötzner, Matthew J. Webber, Alberto Martínez, Claudia De Fusco and Benjamin List*:
Asymmetric Catalysis on the Nanoscale: The Organocatalytic Approach to Helicenes.
Angew. Chem. Int. Ed., **2014**, 53 (20) 5202-5205.

158.) Denis Chusov* and Benjamin List*:
Reductive Amination without an External Hydrogen Source.
Angew. Chem. Int. Ed., **2014**, 53 (20), 5199-5201.

157.) Alberto Martínez, Manuel van Gemmeren and Benjamin List*:
Unexpected Beneficial Effect of *ortho*-Substituents on the (S)-Proline-Catalyzed Asymmetric Aldol Reaction of Acetone with Aromatic Aldehydes.
Synlett, **2014**, 25, 961-964.

156.) Alberto Martínez, Kristina Zumbansen, Arno Döhring, Manuel van Gemmeren and Benjamin List*: Improved Conditions for the Proline-Catalyzed Aldol Reaction of Acetone with Aliphatic Aldehydes. *Synlett*, **2014**, 25 (7), 932-934.

155.) Benjamin List,* Ilija Čorić, Oleksandr O. Grygorenko, Philip S.J. Kaib, Igor Komarov, Anna Lee, Markus Leutzsch, Subhas Chandra Pan, Andrey V. Tymtsunik and Manuel van Gemmeren: The Catalytic Asymmetric α -Benzylation of Aldehydes. *Angew. Chem. Int. Ed.*, **2014**, 53 (1), 282-285.

154.) Manuel van Gemmeren, Frank Lay and Benjamin List*: Asymmetric Catalysis Using Chiral, Enantiopure Disulfonimides. *Aldrichimica Acta*, **2014**, 47 (1), 3-13.

2013

153.) Zhipeng Zhang and Benjamin List*: Kinetics of the Chiral Disulfonimide-Catalyzed Mukaiyama Aldol Reaction. *Asian J. Org. Chem.*, **2013**, 2 (11), 957-960.

152.) Han Yong Bae, Jae Hun Sim, Ji-Woong Lee, Benjamin List* and Choong Eui Song*: Organocatalytic Enantioselective Decarboxylative Aldol Reaction of Malonic Acid Half Thioesters with Aldehydes. *Angew. Chem. Int. Ed.*, **2013**, 52 (46), 12143-12147.

151.) Qinggang Wang, Markus Leutzsch, Manuel van Gemmeren and Benjamin List*: Disulfonimide-Catalyzed Asymmetric Synthesis of β^3 -Amino Esters Directly from N-Boc-Amino Sulfones. *J. Am. Chem. Soc.*, **2013**, 135 (41), 15334-15337.

150.) Ji-Woong Lee, Thomas Mayer-Gall, Klaus Opwis*, Choong Eui Song, Jochen Stefan Gutmann and Benjamin List*: Organotextile Catalysis. *Science*, **2013**, 341 (6151), 1225-1229.

149.) Chandra Kanta De, Fabio Pesciaoli and Benjamin List*: Catalytic Asymmetric Benzidine Rearrangement. *Angew. Chem. Int. Ed.*, **2013**, 52 (35), 9293-9295.

148.) Alberto Martínez, Matthew J. Webber, Steffen Müller and Benjamin List*: Versatile Access to Chiral Indolines by Catalytic Asymmetric Fischer Indolization. *Angew. Chem. Int. Ed.*, **2013**, 52 (36), 9486-9490.

147.) Olga Lifchits, Manuel Mahlau, Corinna M. Reisinger, Anna Lee, Christophe Farès, Iakov Polyak, Gopinadhanpillai Gopakumar, Walter Thiel and Benjamin List*: The Cinchona Primary Amine-Catalyzed Asymmetric Epoxidation and Hydroperoxidation of α,β -Unsaturated Carbonyl Compounds with Hydrogen Peroxide. *J. Am. Chem. Soc.*, **2013**, 135 (17), 6677-6693.

146.) Ji Hye Kim, Ilija Čorić, Sreekumar Vellalath and Benjamin List*: The Catalytic Asymmetric Acetalization. *Angew. Chem. Int. Ed.*, **2013**, 52 (13), 4474-4477.

145.) Ilija Čorić, Ji Hye Kim, Tjostil Vlaar, Mahendra Patil, Walter Thiel and Benjamin List*: Brønsted Acid Catalyzed Asymmetric S_N2 -Type O-Alkylations. *Angew. Chem. Int. Ed.*, **2013**, 52 (12), 3490-3493.

144.) Ilija Čorić, Sreekumar Vellalath, Steffen Müller, Xu Cheng and Benjamin List*: Developing Catalytic Asymmetric Acetalizations. *Top. Organomet. Chem.*, **2013**, 44, 165-193.

143.) Shikha Gandhi and Benjamin List*: Catalytic Asymmetric Three-Component Synthesis of Homoallylic Amines. *Angew. Chem. Int. Ed.*, **2013**, 52 (9), 2573-2576.

142.) Joyram Guin, Georgy Varseev and Benjamin List*:
Catalytic Asymmetric Protonation of Silyl Ketene Imines.
J. Am. Chem. Soc., **2013**, *135* (6), 2100-2103.

141.) Manuel Mahlau and Benjamin List*:
Asymmetric Counteranion-Directed Catalysis: Concept, Definition, and Applications.
Angew. Chem. Int. Ed., **2013**, *52*, 518-533.

2012

140.) Manuel Mahlau, Pilar García-García and Benjamin List*:
Asymmetric Counteranion-Directed Catalytic Hosomi–Sakurai Reaction.
Chem. Eur. J., **2012**, *18* (51), 16283-16287.

139.) Manuel Mahlau and Benjamin List*:
Asymmetric Synthesis II (Ed. M. Christmann, S. Bräse)
Wiley-VCH, Weinheim, **2012**, 79-84.

138.) Ji-Woong Lee and Benjamin List*:
Deracemization of α -Aryl Hydrocoumarins via Catalytic Asymmetric Protonation of Ketene Dithioacetals.
J. Am. Soc. Chem., **2012**, *134* (44), 18245-18248.

137.) Keiji Maruoka, Benjamin List, Hisashi Yamamoto and Liu-Zhu Gong:
Organocatalysis: a web collection.
Chem. Commun., **2012**, 48, 10703-10703.

136.) Benjamin List, Sai-Hu Liao:
Organic Chemistry - Breakthroughs and Perspectives
The Proline-Catalyzed Mannich Reaction and the Advent of Enamine Catalysis
Wiley-VCH, Weinheim, **2012**.

135.) Nicolas Demoulin, Olga Lifchits and Benjamin List*:
Organocatalytic Asymmetric α -Benzoyloxylation of α -Branched Aldehydes and Enals. A Useful Approach to Oxygenated Quaternary Stereocenters.
Tetrahedron, **2012**, *68*, 7568-7574.

134.) Saihu Liao and Benjamin List*:
Asymmetric Counteranion-Directed Iron Catalysis: A Highly Enantioselective Sulfoxidation.
Adv. Synth. Catal., **2012**, *354* (13), 2363-2367.

133.) Benjamin List:
Organocatalysis.
Beilstein J. Org. Chem., **2012**, *8*, 1358-1359.

132.) Manuel Mahlau and Benjamin List*:
Asymmetric Counteranion-Directed Catalysis (ACDC): A Remarkably General Approach to Enantioselective Synthesis.
Isr. J. Chem., **2012**, *52*, 630-638.

131.) Joyram Guin, Constantinos Rabalakos and Benjamin List*:
Highly Enantioselective Hetero-Diels-Alder Reaction of 1,3-Bis(silyloxy)-1,3-dienes with Aldehydes Catalyzed by Chiral Disulfonimide.
Angew. Chem. Int. Ed., **2012**, *51* (35), 8859-8863.

130.) Saihu Liao, Ilija Čorić, Qinggang Wang and Benjamin List*:
Activation of H₂O₂ by Chiral Confined Brønsted Acids: A Highly Enantioselective Catalytic Sulfoxidation.
J. Am. Chem. Soc., **2012**, *134* (26), 10765- 10768.

129.) Anna Lee, Corinna M. Reisinger, Benjamin List*:
Catalytic Asymmetric Epoxidation of 2-Cyclopentenones.
Adv. Synth. Catal., **2012**, *354*, 1701-1706.

128.) Ilija Čorić and Benjamin List*:
Asymmetric Spiroacetalization Catalysed by Confined Brønsted Acids.
Nature, **2012**, *483* (7389), 315- 319.

127.) Benjamin List (Vol. Ed.)
Asymmetric Organocatalysis 1: Lewis Base and Acid Catalysts.
Science of Synthesis, Georg Thieme Verlag KG, Stuttgart, 2012.

2011

126.) Steffen Müller, Matthew J. Webber and Benjamin List*:
The Catalytic Asymmetric Fischer Indolization.
J. Am. Chem. Soc., 2011, 133, 18534-18537.

125.) Gaoxi Jiang, Rajkumar Halder, Yewen Fang and Benjamin List*:
A Highly Enantioselective Overman Rearrangement through Asymmetric Counteranion-Directed Palladium Catalysis.
Angew. Chem. Int. Ed., 2011, 50, 9752-9755.

124.) Olga Lifchits, Nicolas Demoulin and Benjamin List*:
Direct Asymmetric α Benzoyloxylation of Cyclic Ketones.
Angew. Chem. Int. Ed., 2011, 41, 9854-9857.

123.) Gaoxi Jiang and Benjamin List*:
Direct Asymmetric α -Allylation of Aldehydes with Simple Allylic Alcohols Enabled by the Concerted Action of Three Different Catalysts.
Angew. Chem. Int. Ed., 2011, 50, 9471-9474.

122.) Gaoxi Jiang and Benjamin List*:
Enantioselective Hydrovinylation via Asymmetric Counteranion-Directed Ruthenium Catalysis.
Chem. Commun., 2011, 47, 10022-10024.

121.) Benjamin List:
Cluster Preface: Challenges of Proline-Based Aminocatalysis.
Synlett, 2011, 4 (20), 462-463.

120.) Gaoxi Jiang and Benjamin List*:
Palladium/Brønsted Acid Catalyzed α -Allylation of Aldehydes with Allylic Alcohols.
Adv. Synth. Catal., 2011, 353 (10), 1667-1670.

119.) Anna Lee, Anna Michrowska, Sarah Sulzer-Mosse and Benjamin List*:
The Catalytic Asymmetric Knoevenagel Condensation.
Angew. Chem. Int. Ed., 2011, 50, 1707-1710.

118.) Lars Ratjen, Pilar García-García, Frank Lay, Michael Edmund Beck and Benjamin List*:
Disulfonimide-Catalyzed Asymmetric Vinylogous and Bisvinylogous Mukaiyama Aldol Reactions.
Angew. Chem. Int. Ed., 2011, 50, 754-758.

2010

117.) Vijay Wakchaure, Marcello Nicoletti, Lars Ratjen and Benjamin List*:
Towards a Practical Brønsted Acid Catalyzed and Hantzsch Ester Mediated Asymmetric Reductive Amination of Ketones with Benzylamine.
Synlett, 2010, 18, 2708-2710.

116.) Martin Klussmann, Lars Ratjen, Sebastian Hoffmann, Vijay Wakchaure, Richard Goddard and Benjamin List*:
Synthesis of TRIP and Analysis of Phosphate Salt Impurities.
Synlett, 2010, 14, 2189-2192.

115.) Dominique Anna Bock, Christian W. Lehmann and Benjamin List*:
Crystal structures of proline-derived enamines.
PNAS, 2010, 107, 20636-20641.

114.) Sreekumar Vellalath, Ilija Coric and Benjamin List*:
N-Phosphinyl Phosphoramidate - A Chiral Brønsted Acid Motif for the Direct Asymmetric N,O-Acetalization of Aldehydes.
Angew. Chem. Int. Ed., 2010, 49, 9749-9752.

- 113.) Ilija Coric, Steffen Müller and Benjamin List*:
Kinetic Resolution of Homoaldols via Catalytic Asymmetric Transacetalization.
J. Am. Chem. Soc., **2010**, *132*, 17370-17373.
- 112.) Zhang, Y., F. Lay, P. García-García, Benjamin List and E.Y.-X. Chen:
High-Speed Living Polymerization of Polar Vinyl Monomers by Self-Healing Silylium Catalysts.
Chemistry - A European Journal, **2010**, *16* (34), 10462-10473.
- 111.) Lars Ratjen, Steffen Müller and Benjamin List*:
ACDC - not just for heavy metal fans.
Nachrichten aus der Chemie, **2010**, *58*, 640-646.
- 110.) Steffen Müller and Benjamin List*:
Catalytic asymmetric 6π -electrocyclization: accessing highly substituted optically active 2-pyrazolines via diastereoselective alkylations.
Synthesis, **2010**, *13*, 2171-2178.
- 109.) Olga Lifchits, Corinna M. Reisinger and Benjamin List*:
Catalytic Asymmetric Epoxidation of α -Branched Enals.
J. Am. Chem. Soc., **2010**, *132*, 10227-10229.
- 108.) Vijay N. Wakchaure, Jian Zhou, Sebastian Hoffmann and Benjamin List*:
Catalytic Asymmetric Reductive Amination of α -Branched Ketones.
Angew. Chem. Int. Ed., **2010**, *49*, 4612-4614.
- 107.) Ilija Coric, Sreekumar Vellalath and Benjamin List*:
Catalytic Asymmetric Transacetalization.
J. Am. Chem. Soc., **2010**, *132*, 8536-8537.
- 106.) Vijay N. Wakchaure and Benjamin List*:
A New Structural Motif for Bifunctional Brønsted Acid/Base Organocatalysis.
Angew. Chem. Int. Ed., **2010**, *49*, 4136-4139.
- 105.) Kristina Zumbansen, Arno Döhring and Benjamin List*:
Morpholinium Trifluoroacetate Catalyzed Aldol Condensation of Acetone with both Aromatic and Aliphatic Aldehydes.
Adv. Synth. Catal., **2010**, *352*, 1135-1138.
- 104.) Benjamin List:
Enough Organocatalysis? (Ed.)
Top. Curr. Chem., **2010**, *291*, *Asymmetric Organocatalysis*, ix-x.
- 103.) Daniela Kampen, Corinna M. Reisinger and Benjamin List*:
Chiral Brønsted Acids for Asymmetric Organocatalysis.
Top. Curr. Chem., **2010**, *291*, 395-456.
- 102.) Benjamin List*:
Emil Knoevenagel and the Roots of Aminocatalysis.
Angew. Chem. Int. Ed., **2010**, *49*, 1730-1734.
- 101.) Saihu Liao and Benjamin List*:
Asymmetric Counteranion-Directed Transition-Metal Catalysis: Enantioselective Epoxidation of Alkenes with Manganese(III) Salen Phosphate Complexes.
Angew. Chem. Int. Ed., **2010**, *49*, 628-631.

2009

- 100.) Steffen Müller and Benjamin List*:
A Catalytic Asymmetric 6π Electrocyclization: Enantioselective Synthesis of 2-Pyrazolines.
Angew. Chem. Int. Ed., **2009**, *48*, 9975-9978.
- 99.) Anna Michrowska and Benjamin List*:
Concise synthesis of ricciocarpin A and discovery of a more potent analogue.
Nature Chem., **2009**, *1*, 225-228.

- 98.) Pilar Garcia Garcia, Frank Lay, Patricia Garcia Garcia, Constantinos Rabalakos and Benjamin List*:
A Powerful Chiral Counteranion Motif for Asymmetric Catalysis.
Angew. Chem. Int. Ed., **2009**, *48*, 4363-4366.
- 97.) Rubén Manzano, Lidia Ozores, Andreas Job, Lars Rodefeld and Benjamin List*:
Catalytic Synthesis of (*E*)- α , β -Unsaturated Esters from Aldehydes and 1,1-Diethoxyethylene.
Beilstein J. Org. Chem., **2009**, *5*, doi:10.3762/bjoc.5.3.
- 96.) Carley Chandler, Patrizia Galzerano, Anna Michrowska and Benjamin List*:
The Proline-Catalyzed Double Mannich Reaction of Acetaldehyde with N-Boc Imines.
Angew. Chem. Int. Ed., **2009**, *48*, 1978-1980.
- 95.) Wolfgang Schrader, Peni Purwa Handayani, Jian Zhou and Benjamin List*:
Characterization of Key Intermediates in a Complex Organocatalytic Cascade Reaction Using Mass Spectrometry.
Angew. Chem. Int. Ed., **2009**, *48*, 1463-1466.
- 94.) Jung Woon Yang, Subhas Chandra Pan and Benjamin List*:
Synthesis of *tert*-Butyl (1*S*,2*S*)-2-methyl-3-oxo-1-phenylpropylcarbamate by Asymmetric Mannich Reaction.
Org. Synth., **2009**, *86*, 11-17.
- 2008**
- 93.) Xu Cheng, Sreekumar Vellalath, Richard Goddard and Benjamin List*:
Direct Catalytic Asymmetric Synthesis of Cyclic Aminals from Aldehydes.
J. Am. Chem. Soc., **2008**, *130* (47), 15786-15787.
- 92.) Nolwenn J. A. Martin, Xu Cheng and Benjamin List*:
Organocatalytic Asymmetric Transferhydrogenation of β -Nitroacrylates: Accessing β^2 -Amino Acids.
J. Am. Chem. Soc., **2008**, *130*, 13862-13863.
- 91.) Corinna M. Reisinger, Xingwang Wang and Benjamin List*:
Catalytic Asymmetric Hydroperoxidation of α,β -Unsaturated Ketones: An Approach to Enantiopure Peroxyhemiketals, Epoxides, and Aldols.
Angew. Chem. Int. Ed., **2008**, *47*, 8112-8115.
- 90.) Jian Zhou, Vijay Wakchaure, Philip Kraft and Benjamin List*:
Primary-Amine-Catalyzed Enantioselective Intramolecular Aldolizations.
Angew. Chem. Int. Ed., **2008**, *47*, 7656-7658.
- 89.) Gareth Adair, Santanu Mukherjee and Benjamin List*:
TRIP-A Powerful Brønsted Acid Catalyst for Asymmetric Synthesis.
Aldrichimica Acta, **2008**, *41* (2), 31-39.
- 88.) Xu Cheng, Richard Goddard, Gernoth Buth and Benjamin List*:
Direct Catalytic Asymmetric Three-Component Kabachnik-Fields Reaction.
Angew. Chem. Int. Ed., **2008**, *47*, 5079-5081.
- 87.) Patricia García-García, Arnaud Ladépêche, Rajkumar Halder and Benjamin List*:
Catalytic Asymmetric Michael Reactions of Acetaldehyde.
Angew. Chem. Int. Ed., **2008**, *120*, 4797-4799.
- 86.) Carley L. Chandler and Benjamin List*:
Catalytic Asymmetric Transannular Aldolizations: Total Synthesis of (+)-Hirsutene.
J. Am. Chem. Soc., **2008**, *130*, 6737-6739.
- 85.) Xingwang Wang, Corinna M. Reisinger and Benjamin List*:
Catalytic Asymmetric Epoxidation of Cyclic Enones.
J. Am. Chem. Soc., **2008**, *130*, 6070-6071.
- 84.) Subhas Chandra Pan and Benjamin List*:
Catalytic Three-Component Ugi Reaction.
Angew. Chem. Int. Ed., **2008**, *47*, 3622-3625.

83.) Daniela Kampen, Arnaud Ladépêche, Gerrit Claßen and Benjamin List*:
Brønsted Acid-Catalyzed Three-Component Hosomi-Sakurai Reactions.
Adv. Synth. Catal., **2008**, *350*, 962-966.

82.) Jung Woon Yang, Carley Chandler, Michael Stadler, Daniela Kampen and Benjamin List*:
Proline-catalysed Mannich reaction of acetaldehyde.
Nature, **2008**, *452*, 453-455.

81.) Michael Stadler and Benjamin List*:
Heck Reactions of Crotonaldehyde.
Synlett, **2008**, 597-599.

80.) Subhas Chandra Pan and Benjamin List*:
The Catalytic Acylcyanation of Imines.
Chem. Asian J., **2008**, *3*, 430-437.

79.) Xingwang Wang and Benjamin List*:
Asymmetric Counteranion-Directed Catalysis for the Epoxidation of Enals.
Angew. Chem. Int. Ed., **2008**, *120*, 1135-1138.

2007

78.) Subhas C. Pan and Benjamin List*:
New Concepts for Organocatalysis
In Ernst Schering Research Foundation Workshop,
M. T. Reetz, B. List, S. Jaroch and H. Weinmann (Eds.), Springer Berlin Heidelberg, **2007**, *2*, 1-43

77.) Benjamin List*:
Introduction: Organocatalysis.
Chem. Rev., **2007**, *107*, 5413-5415.

76.) Santanu Mukherjee, Jung Woon Yang, Sebastian Hoffmann and Benjamin List*:
Asymmetric Enamine Catalysis.
Chem. Rev., **2007**, *107*, 5471-5569.

75.) Santanu Mukherjee and Benjamin List*:
Chiral Counteranions in Asymmetric Transition-Metal Catalysis: Highly Enantioselective Pd/Brønsted
Acid-Catalyzed Direct α -Allylation of Aldehydes.
J. Am. Chem. Soc., **2007**, *129*, 11336-11337.

74.) Jung Woon Yang, Michael Stadler and Benjamin List*:
Practical Proline-Catalyzed Asymmetric Mannich Reaction of Aldehydes with N-Boc-imines.
Nat. Protocols, **2007**, *2*, 1937-1942.

73.) Jian Zhou and Benjamin List*:
Synthesis of trans-3-Substituted Cyclohexylamines via Brønsted Acid Catalyzed and substrate-Mediated
Triple Organocatalytic Cascade Reaction.
Synlett, **2007**, 2037-2040.

72.) Nolwenn J. A. Martin, Lidia Ozores and Benjamin List*:
Organocatalytic Asymmetric Transfer Hydrogenation of Nitroolefins.
J. Am. Chem. Soc., **2007**, *129*, 8976-8977.

71.) Jian Zhou and Benjamin List*:
Organocatalytic Asymmetric Reaction Cascade to Substituted Cyclohexylamines.
J. Am. Chem. Soc., **2007**, *129*, 7498-7499.

70.) Benjamin List:
Biocatalysis and Organocatalysis: Asymmetric Synthesis Inspired by Nature. In Asymmetric Synthesis:
The Essentials, Christmann, M. and Bräse, S., Ed. Wiley-VCH: Weinheim, Germany, **2007**, 161-165.

69.) Santanu Mukherjee and Benjamin List*:
Organic Chemistry: Radical Catalysis.
Nature, **2007**, *447*, 152-153.

- 68.) Xiaoguang Li and Benjamin List*:
Catalytic Asymmetric Hydrogenation of Aldehydes.
Chem. Commun. **2007**, *17*, 1739-1741.
- 67.) Subhas Chandra Pan and Benjamin List*:
Catalytic One-Pot, Three-Component Acyl-Strecker Reaction.
Synlett, **2007**, *2*, 318-320.
- 66.) Subhas Chandra Pan and Benjamin List*:
Catalytic Asymmetric Three-Component Acyl-Strecker Reaction.
Org. Lett., **2007**, *9* (4), 1149-1151.
- 65.) Subhas Chandra Pan, Jian Zhou and Benjamin List*:
Catalytic Asymmetric Acylcyanation of Imines.
Angew. Chem. Int. Ed., **2007**, *46* (4), 612-614.
- 64.) Jung Woon Yang, Michael Stadler and Benjamin List*:
Proline-Catalyzed Mannich Reaction of Aldehydes with N-Boc-Imines.
Angew. Chem. Int. Ed., **2007**, *46* (4), 609-611.

2006

- 63.) Subhas Chandra Pan, Jian Zhou and Benjamin List*:
Catalytic Acylcyanation of Imines with Acetylcyanide.
Synlett, **2006**, *19*, 3275-3276.
- 62.) Jung Woon Yang* and Benjamin List*:
Catalytic Asymmetric Transfer Hydrogenation of α -Ketoesters with Hantzsch Esters.
Org. Lett., **2006**, *8*, 5653-5655.
- 61.) Benjamin List* and Jung Woon Yang:
The Organic Approach to Asymmetric Catalysis.
Science, **2006**, *313* (5793), 1584-1586.
- 60.) Nolwenn J. A. Martin and Benjamin List*:
Highly Enantioselective Transfer Hydrogenation of α,β -Unsaturated Ketones.
J. Am. Chem. Soc., **2006**, *128* (40), 13368-13369.
- 59.) Daniela Kampen and Benjamin List*:
Efficient Brønsted Acid Catalyzed Hosomi–Sakurai Reaction of Acetals.
Synlett, **2006**, *16*, 2589-2592.
- 58.) Sebastian Hoffmann, Marcello Nicoletti and Benjamin List*:
Catalytic Asymmetric Reductive Amination of Aldehydes via Dynamic Kinetic Resolution.
J. Am. Chem. Soc., **2006**, *128* (40), 13074-13075.
- 57.) Sonja Mayer and Benjamin List*:
Asymmetric Counteranion-Directed Catalysis.
Angew. Chem. Int. Ed., **2006**, *45* (25), 4193-4195.
- 56.) Aiping Fu, Benjamin List* and Walter Thiel*:
Density Functional Study of the Enantioselectivity in the 2-Methylproline-Catalyzed α -Alkylation of Aldehydes.
J. Org. Chem., **2006**, *71* (1), 320-326.
- 55.) Benjamin List*:
The Ying and Yang of Asymmetric Aminocatalysis.
Chem. Comm., **2006**, 819-824.
- 54.) Jayasree Seayad, Abdul Majeed Seayad and Benjamin List*:
Catalytic Asymmetric Pictet-Spengler Reaction.
J. Am. Chem. Soc., **2006**, *128* (4), 1086-1087.

53.) Benjamin List*, Arno Doehring, Maria T. Hechavarria Fonseca, Andreas Job and Ramon Rios Torres:
A Practical, efficient, and atom economic alternative to the Wittig and Horner–Wadsworth-Emmons
reactions for the synthesis of (E)- α,β -unsaturated esters from aldehydes.
Tetrahedron **2006**, *62* (2-3), 476-482.

2005

52.) Jayasree Seayad and Benjamin List:
Chapter 9. Catalytic Asymmetric Multi-Component Reactions.
In Multi-Component Reactions, Zhu, J. and Bienayme, H., Eds. Wiley-VCH: Weinheim, Germany, **2005**.

51.) Sebastian Hoffmann, Abdul Majeed Seayad and Benjamin List*:
A Powerful Brønsted Acid Catalyst for the Organocatalytic Asymmetric Transfer Hydrogenation of Imines.
Angew. Chem. Int. Ed., **2005**, *44*, 7424-7427.

50.) Jung Woon Yang, Maria H. Fonseca and Benjamin List*:
Catalytic Asymmetric Reductive Michael Cyclization.
J. Am. Chem. Soc., **2005**, *127*, 15036-15037.

49.) Benjamin List*, Arno Doehring, Maria T. Hechavarria Fonseca, Kathrin Wobser, Hendrik van Thienen, Ramon Rios Torres and Pedro Llamas Galilea:
Practical Synthesis of (E)- α,β -Unsaturated Esters from Aldehydes.
Adv. Synth. Catal., **2005**, *347*, 1558 – 1560.

48.) Jayasree Seayad and Benjamin List*:
Asymmetric Organocatalysis.
Org. Biomol. Chem., **2005**, *3*, 719-724.

2004

47.) Jung Woon Yang, Maria H. Fonseca, Nicola Vignola and Benjamin List*:
Metal-Free, Organocatalytic Asymmetric Transfer Hydrogenation of α,β -Unsaturated Aldehydes.
Angew. Chem. Int. Ed., **2004**, *117*, 110-112.

46.) Jung Woon Yang, Maria T. Hechavarria Fonseca and Benjamin List*:
A Metal-Free Transfer Hydrogenation: Organocatalytic Conjugate Reduction of α,β -Unsaturated Aldehydes.
Angew. Chem. Int. Ed., **2004**, *43*, 6660-6662.

45.) Benjamin List:
Organokatalyse: Eine neue und breit anwendbare Synthesemethode
Jahrb. - Max-Planck-Ges., Vandenhoeck & Ruprecht: Göttingen, **2004**, S. 353-356.

44.) Benjamin List: Organocatalysis:
A Complementary Catalysis Strategy Advances Organic Synthesis.
Adv. Synth. Catal., **2004**, *346*, 1021.

43.) Benjamin List:
Amine-Catalyzed Aldol Reactions.
In Modern Aldol Reactions, Vol. 1, Mahrwald, R., Ed. Wiley-VCH: Weinheim, Germany, **2004**, 161-200.

42.) Benjamin List*:
Enamine Catalysis is a Powerful Strategy for the Catalytic Generation and Use of Carbanion Equivalents.
Acc. Chem. Res., **2004**, *37*, 548-557.

41.) K. N. Houk and Benjamin List:
Asymmetric Organocatalysis.
Acc. Chem. Res., **2004**, *37*, 487-487.

40.) Maria T. Hechavarria Fonseca and Benjamin List*:
Catalytic Asymmetric Intramolecular Michael Reaction of Aldehydes.
Angew. Chem. Int. Ed., **2004**, *43*, 3958-3960.

39.) Maria T. Hechavarria Fonseca and Benjamin List*:
Combinatorial Chemistry and High-Throughput-Screening for the Discovery of Organocatalysts.
Curr. Opin. Chem. Biol., **2004**, *8*, 319-326.

38.) Benjamin List*, Linh Hoang and Harry J. Martin:
New Mechanistic Studies on the Proline-Catalyzed Aldol Reaction.
Proc. Natl. Acad. Sci., **2004**, *101*, 5839-5842.

37.) Nicola Vignola and Benjamin List*:
Catalytic Asymmetric Intramolecular α -Alkylation of Aldehydes.
J. Am. Chem. Soc., **2004**, *126*, 450-451.

2003

36.) Peter Pojarliev, William T. Biller, Harry J. Martin and Benjamin List*:
Highly Enantioselective Synthesis of 1,2-Amino Alcohol Derivatives via Proline-Catalyzed Mannich Reaction.
Synlett, **2003**, *12*, 1903-1905.

35.) Harry J. Martin and Benjamin List*:
Mining Sequence Space for Asymmetric Aminocatalysis: N-Terminal Prolyl-Peptides Efficiently Catalyze Enantioselective Aldol and Michael Reactions.
Synlett, **2003**, *12*, 1901-1902.

34.) Chandrakala Pidathala, Linh Hoang, Nicola Vignola and Benjamin List*:
Direct Catalytic Asymmetric Enolxo-Aldolizations.
Angew. Chem. Int. Ed., **2003**, *42*, 2785-2788.

33.) S. Bahmanyar, K. N. Houk*, Harry J. Martin and Benjamin List*:
Quantum Mechanical Predictions of the Stereoselectivities of Proline-Catalyzed Asymmetric Intermolecular Aldol Reactions.
J. Am. Chem. Soc., **2003**, *125*, 2475-2479.

32.) Linh Hoang, S. Bahmanyar, K. N. Houk and Benjamin List*:
Kinetic and Stereochemical Evidence for the Involvement of Only One Proline Molecule in the Transition States of Proline-Catalyzed Intra- and Intermolecular Aldol Reactions.
J. Am. Chem. Soc., **2003**, *125*, 16-17.

2002

31.) Benjamin List*:
Proline-Catalyzed Asymmetric Reactions.
Tetrahedron, **2002**, *58*, 5573-5590.

30.) Benjamin List*:
Direct Catalytic Asymmetric α -Amination of Aldehydes.
J. Am. Chem. Soc., **2002**, *124*, 5656-5657.

29.) Benjamin List*, Peter Pojarliev, William T. Biller and Harry J. Martin:
The Proline-Catalyzed Direct Asymmetric Three-Component Mannich Reaction:
Scope, Optimization, and Application to the Highly Enantioselective Synthesis of 1,2-Amino Alcohols.
J. Am. Chem. Soc., **2002**, *124*, 827-833.

2001

28.) Dorothy S. Worrall, Jonathan E. McDunn, Benjamin List, Donna Reichart, Andrea Hevener, Thomas Gustafson, Carlos F. Barbas III, Richard A. Lerner* and Jerrold M. Olefsky*:
Synthesis of an Organoinulin Molecule that can be Activated by Antibody Catalysis.
Proc. Natl. Acad. Sci., **2001**, *98*, 13514-13518.

27.) Cecilia Subauste*, Benjamin List, Xiaojun Guan, Klaus M. Hahn, Richard A. Lerner and Norton B. Gilula:
A Catalytic Antibody Produces Fluorescent Tracers of Gap Junction Communication in Living Cells.
J. Biol. Chem., **2001**, *276*, 49164-49168.

- 26.) Benjamin List*:
Asymmetric Aminocatalysis.
Synlett, **2001**, 1675-1686.
- 25.) Benjamin List* and Chris Castello:
A Novel Proline-Catalyzed Three-Component Reaction of Ketones, Aldehydes, and Meldrum's Acid.
Synlett, **2001**, 1687-1689.
- 24.) Benjamin List*, Peter Pojarliev and Harry J. Martin:
Efficient Proline-Catalyzed Michael-Additions of Unmodified Ketones to Nitroolefins.
Org. Lett., **2001**, 3, 2423-2425.
- 23.) Benjamin List*, Peter Pojarliev and Chris Castello:
Proline-Catalyzed Asymmetric Aldol Reactions between Ketones and α -Unsubstituted Aldehydes.
Org. Lett., **2001**, 3, 573-575.

2000

- 22.) Benjamin List*:
The Direct Catalytic Asymmetric Three-Component Mannich Reaction.
J. Am. Chem. Soc., **2000**, 122, 9336-9337.
- 21.) Wolfgang Notz and Benjamin List*:
Catalytic Asymmetric Synthesis of anti-1,2-Diols.
J. Am. Chem. Soc., **2000**, 122, 7386-7387.
- 20.) Carlos F. Barbas III*, Christoph Rader, David J. Segal, Benjamin List and James M. Turner:
From Catalytic Asymmetric Synthesis to the Transcriptional Regulation of Genes: In Vivo and In Vitro evolution of Proteins.
Advances in Protein Chemistry, **2000**, 55, 317-366.
- 19.) James Turner, Tommy Bui, Richard A. Lerner*, Carlos F. Barbas* and Benjamin List*:
An Efficient Benchtop System for Multigram-Scale Kinetic Resolutions Using Aldolase Antibodies.
Chem. Eur. J., **2000**, 6, 2772-2774.
- 18.) Christoph Rader and Benjamin List*:
Catalytic Antibodies as Magic Bullets.
Chem. Eur. J., **2000**, 6, 2091-2095.
- 17.) Benjamin List*, Richard. A. Lerner and Carlos F. Barbas III:
Proline-Catalyzed Direct Asymmetric Aldol Reactions.
J. Am. Chem. Soc., **2000**, 122, 2395-2396.
- 16.) Amelie Karlstrom, Guofu Zhong, Christoph Rader, Nicholas A. Larsen, Andreas Heine, Roberta Fuller, Benjamin List, Fujie Tanaka, Ian A. Wilson, Carlos F. Barbas III* and Richard A. Lerner*:
Using Antibody Catalysis to Study the Outcome of Multiple Evolutionary Trials of a Chemical Task.
Proc. Natl. Acad. Sci., **2000**, 97, 3878-3883.

1999 - 1994

- 15.) Benjamin List, Doron Shabat, Guofu Zhong, James M. Turner, Tony Li, Tommy Bui, James Anderson, Richard. A. Lerner* and Carlos F. Barbas III*:
A Catalytic Enantioselective Route to Hydroxy-Substituted Quaternary Carbon Centers: Resolution of Tertiary Aldols with a Catalytic Antibody.
J. Am. Chem. Soc., **1999**, 121, 7283-7291.
- 14.) Doron Shabat, Christoph Rader, Benjamin List, Richard. A. Lerner* and Carlos F. Barbas III*:
Multiple Event Activation of a Generic Prodrug Trigger by Antibody Catalysis.
Proc. Natl. Acad. Sci., **1999**, 96, 6925-6930.
- 13.) Benjamin List, Richard. A. Lerner* and Carlos F. Barbas III*:
Enantioselective Aldol-Cyclodehydrations Catalyzed by Antibody 38C2.
Org. Lett., **1999**, 1, 59-62.

- 12.) Doron Shabat, Benjamin List, Richard A. Lerner* and Carlos F. Barbas III*:
A Short Enantioselective Synthesis of 1-Deoxy-L-Xylulose by Antibody Catalysis.
Tetrahedron Lett., 1999, 40, 1437-40.
- 11.) Benjamin List, Carlos F. Barbas III* and Richard. A. Lerner*:
Aldol Sensors for the Rapid Generation of Tunable Fluorescence by Antibody Catalysis.
Proc. Natl. Acad. Sci., 1998, 15351-55.
- 10.) Carlos F. Barbas III and Benjamin List:
Alchemy, Enzymes, and the Blind-Watchmaker.
Nature Biotechnology, 1998, 16, 423-24.
- 9.) Benjamin List, Doron Shabat, Carlos F. Barbas III* and Richard A. Lerner*:
Enantioselective Total Synthesis of Some Brevicomins Using Aldolase Antibody 38C2.
Chem. Eur. J., 1998, 881-885.
- 8.) Guofu Zhong, Doron Shabat, Benjamin List, James Anderson, Subash C. Sinha, Richard A. Lerner* and Carlos F. Barbas III*:
Angew. Chem., Int. Ed., 1998, 37, 2481-84.
- 7.) Torsten Hoffmann, Guofu Zhong, Benjamin List, Doron Shabat, James Anderson, Svetlana Gramatikova, Richard A. Lerner* and Carlos F. Barbas III*:
Aldolase Antibodies of Remarkable Scope.
J. Am. Chem. Soc., 1998, 120, 2768-79.
- 6.) Carlos F. Barbas III*, Andreas Heine, Guofu Zhong, Torsten Hoffmann, Svetlana Gramatikova, Robert Bjoernstedt, Benjamin List, James Anderson, Enrico A. Stura, Ian Wilson* and Richard A. Lerner*:
Immune vs. Natural Selection: Antibody Aldolases with Enzymic Rates but Broader Scope.
Science, 1997, 278, 2085-2092.
- 5.) Johann Mulzer*, Jan W. Bats, Benjamin List, Till Opatz and Dirk Trauner:
The Phenanthrene Approach to Opium Alkaloids: Formal Total Synthesis of Morphine by Sigmatropic Rearrangement.
Synlett, 1997, 441-44.
- 4.) Johann Mulzer*, Benjamin List and Jan W. Bats:
Stereocontrolled Synthesis of a Nonracemic Vitamin B₁₂ A-B Semicorrin.
J. Am. Chem. Soc., 1997, 119, 5512-18.
- 3.) Johann Mulzer*, Harry J. Martin and Benjamin List:
Three Component, One-Pot Synthesis of α,β -Unsaturated Ketones.
Tetrahedron Lett., 1996, 37, 9177-78.
- 2.) Johann Mulzer* and Benjamin List:
[2,3]-Wittig Rearrangement of (Trimethylsilyl)methyl Allyl Ethers.
Tetrahedron Lett., 1996, 37, 2403-04.
- 1.) Johann Mulzer* and Benjamin List:
Highly Stereoselective Synthesis of Tetrasubstituted Alkenes via [2,3]-Wittig Rearrangement.
Tetrahedron Lett., 1994, 35, 9021-24.