

2021

248.) Sayantani Das, Benjamin Mitschke, Chandra Kanta De, Ingolf Harden, Giovanni Bistoni and Benjamin List*

Harnessing the ambiphilicity of silyl nitronates in a catalytic asymmetric approach to aliphatic β 3-amino acids

Nat. Catal., 2021, y, xx–xx.

247.) Carla Obradors, Benjamin Mitschke, Miles Aukland, Markus Leutzsch, Oleg Grossmann, Sebastian Brunen, Sebastian Schwengers and Benjamin List*

Direct and Catalytic C-Glycosylation of Arenes: Expeditious Synthesis of the Remdesivir Nucleoside

Angew. Chem. Int. Ed., 2021, 60, xx–xx.

246.) C. David Diaz-Oviedo, Rajat Maji and Benjamin List*

The Catalytic Asymmetric Intermolecular Prins Reaction

J. Am. Chem. Soc., 2021, 143, xx–xx.

245.) Benjamin List* and Denis Höfler

A Chiral, Dendralenic C–H Acid

Synlett, 2021, 32, xx–xx.

244.) Hui Zhou, Pinglu Zhang and Benjamin List*

The Silicon–Hydrogen Exchange Reaction: Catalytic Kinetic Resolution of 2-Substituted Cyclic Ketones

Synlett, 2021, 32, 1953–1956.

243.) Benjamin List*, Denis Höfler, Karl Kaupmees and Ivo Leito

A Chiral Sulfoxide-Based C–H Acid

Synlett, 2021, 32, xx–xx.

242.) Sebastian A. Schwengers, Chandra Kanta De, Oleg Grossmann, Joyce A. A. Grimm, Natascha R. Sadlowski, Gabriela G. Gerosa, and Benjamin List*

Unified Approach to Imidodiphosphate-Type Brønsted Acids with Tunable Confinement and Acidity

J. Am. Chem. Soc., 2021, 143, 14835–14844.

241.) Tynchtyk Amatov, Nobuya Tsuji, Rajat Maji, Lucas Schreyer, Hui Zhou, Markus Leutzsch, and Benjamin List*

Confinement-Controlled, Either syn- or anti-Selective Catalytic Asymmetric Mukaiyama Aldolizations of Propionaldehyde Enolsilanes

J. Am. Chem. Soc., 2021, 143, 14475–14481.

240.) Guoli He, Prof. Dr. Benjamin List, Prof. Dr. Mathias Christmann

Unified Synthesis of Polycyclic Alkaloids by Complementary Carbonyl Activation

Angew. Chem. Int. Ed., 2021, 60, 13591–13596.

239.) Carla Obradors and Benjamin List*

Azine Activation via Silylium Catalysis

J. Am. Chem. Soc., 2021, 143, 6817–6822.

238.) Chendan Zhu, Francesca Mandrelli, Hui Zhou, Rajat Maji and Benjamin List*

Catalytic Asymmetric Synthesis of Unprotected β 2-Amino Acids

J. Am. Chem. Soc., 2021, 143, 3312–3317.

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, 675–680.

236.) Jie Ouyang, Hanyong Bae, Samuel Jordi, Quang Minh Dao, Sandro Dossenbach, Stefanie Dehn, Juilia Beatrice Lingnau, Chandra Kanta De, Philip Kraft and Benjamin List*

The Odorous Principle of Vetiver Oil, Unveiled by Chemical Synthesis

Angew. Chem. Int. Ed., 2021, 60, 5666–5672.

2020

- 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 Tetratriflylpropene'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 Gatzenmeier, 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 Tricarbonion
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 Gatzenmeier, 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*, 1478–1480.

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-Tetratrylpropene (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 Riccardo 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 Gatzmeier*, 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 Phosphoramidates 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 Pescioli 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 -Benzoylation 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 Pesciaioli 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.
- 20.) 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.