

1. **Gy. Szöllösi**, Á. Mastalir, Á. Molnár, M. Bartók.
Hydrogenation of α,β -unsaturated ketones on metal catalysts.
React. Kinet. Catal. Lett., **57** (1996) 29.
2. **Gy. Szöllösi**, M. Bartók.
Vapour-phase heterogeneous catalytic transfer hydrogenation of alkyl methyl ketones on MgO: Prevention of the deactivation of MgO in the presence of carbon tetrachloride.
Appl. Catal. A: Gen., **169** (1998) 263.
3. **Gy. Szöllösi**, B. Török, G. Szakonyi, I. Kun, M. Bartók.
Ultrasonic irradiation as activity and selectivity improving factor in the hydrogenation of cinnamaldehyde over Pt/SiO₂ catalysts.
Appl. Catal. A: Gen., **172** (1998) 225.
4. **Gy. Szöllösi***, B. Török, M. Bartók.
Monitoring of Optical Isomers of Chiral Alcohols and Derivatives by Chiral Gas-Chromatography. Effect of Derivatization on the Enantiodifferentiation.
Chromatographia, **48** (1998) 81.
5. M. Bartók, **Gy. Szöllösi**, J. Apjok.
Mechanism of Hydrogenolysis and Isomerization of Oxacycloalkanes, XVI. Transformation of Tetrahydrofuran on Platinum Catalysts.
React. Kinet. Catal. Lett., **64** (1998) 21.
6. **Gy. Szöllösi**, B. Török, L. Baranyi, M. Bartók.
Chemoselective Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol over Pt/K-10 Catalyst.
J. Catal., **179** (1998) 619.
7. B. Török, **Gy. Szöllösi**, M. Rózsa-Tarjáni, M. Bartók.
Preparation, Characterization and Application of K-10 Montmorillonite Modified with Chiral Ammonium Halides.
Mol. Cryst. Liquid Cryst., **311** (1998) 289.
8. M. Bartók, **Gy. Szöllösi**, A. Mastalir, I. Dékány.
Hydrogenation reactions on heterogenized Wilkinson complexes.
J. Mol. Catal. A: Chem., **139** (1999) 227.
9. M. Bartók, K. Felföldi, **Gy. Szöllösi**, T. Bartók.
Rigid Cinchona Conformers in Enantioselective Catalytic Reactions; New Cinchona-modified Platinum Catalysts in the Orito Reaction.
Catal. Lett., **61** (1999) 1.
10. M. Bartók, T. Bartók, **Gy. Szöllösi**, K. Felföldi.
Electrospray Ionization Mass Spectrometry in Heterogeneous Catalyzed Organic Reactions; Unknown Compounds in the Pyruvate Hydrogenation.
Catal. Lett., **61** (1999) 57.
11. B. Török, K. Balázsik, **Gy. Szöllösi**, K. Felföldi, M. Bartók.
Ultrasonics in Asymmetric Synthesis. Sonochemical Enantioselective Hydrogenation of Prochiral C=O Groups over Platinum Catalysts.
Chirality **11** (1999) 470.

* corresponding author

12. B. Török, **Gy. Szöllösi**, K. Balázsik, K. Felföldi, I. Kun, M. Bartók.
Ultrasonics in Heterogeneous Metal Catalysis. Sonochemical Chemo- and Enantioselective Hydrogenations over Supported Platinum Catalysts.
Ultrasonics Sonochem., **6** (1999) 97.
13. M. Bartók, K. Felföldi, **Gy. Szöllösi**, T. Bartók.
Heterogeneous Asymmetric Reactions, 14. Epicinchona Alkaloids in the Enantioselective Hydrogenation of Ethyl Pyruvate over Pt/Alumina: What Determines the Sense of Enantioselection?
React. Kinet. Catal. Lett., **68** (1999) 371.
14. **Gy. Szöllösi**, M. Bartók.
Catalytic Transfer Hydrogenation of 2-Butanone on MgO. New Active Surface Sites Generated by Treatment with Chloroform.
Catal. Lett., **59** (1999) 179.
15. B. Török, K. Balázsik, I. Kun, **Gy. Szöllösi**, G. Szakonyi, M. Bartók.
Homogeneous and Heterogeneous Asymmetric Reactions. Part 13. Clay-supported Noble Metal Catalysts in Enantioselective Hydrogenations.
Stud. Surf. Sci. Catal., **125** (1999) 515.
16. **Gy. Szöllösi**, M. Bartók.
Hydrogenation of Unsaturated Ketones: Selective Catalytic Transfer Hydrogenation of 5-hexen-2-one over MgO.
J. Mol. Catal. A: Chem., **148** (1999) 265.
17. **Gy. Szöllösi***, M. Bartók.
Role of basic and acidic centers of MgO and modified MgO in catalytic transfer hydrogenation of ketones studied by infrared spectroscopy.
J. Mol. Struct., **482-483** (1999) 13.
18. **Gy. Szöllösi***, I. Kun, B. Török, M. Bartók.
Chemoselective Hydrogenation of C=O Group in Unsaturated Aldehydes over Clay-supported Platinum Catalysts.
Stud. Surf. Sci. Catal., **125** (1999) 539.
19. **Gy. Szöllösi**, M. Bartók.
Catalytic Transfer Hydrogenation of 2-Butanone over Oxide Catalysts.
React. Kinet. Catal. Lett., **68** (1999) 197.
20. **Gy. Szöllösi***, I. Kun, B. Török, M. Bartók.
Ultrasonics in Chemoselective Heterogeneous Metal Catalysis. Sonochemical Hydrogenation of Unsaturated Carbonyl Compounds over Platinum Catalysts.
Ultrasonics Sonochem., **7** (2000) 173.
21. **Gy. Szöllösi**, K. Felföldi, T. Bartók, M. Bartók.
Heterogeneous Asymmetric Reactions, 22. β -Isocinchona alkaloids in Enantioselective Hydrogenations.
React. Kinet. Catal. Lett., **71** (2000) 99.
22. Á. Mastalir, Z. Király, **Gy. Szöllösi**, M. Bartók.
Preparation of Organophilic Pd-Montmorillonite, An Efficient Catalyst in Alkyne Semihydrogenation.
J. Catal., **194** (2000) 146.

* corresponding author

23. T. Bartók, **Gy. Szöllösi**, K. Felföldi, M. Bartók, J. Thiel.
New results on the mass spectra of cinchona alkaloids.
J. Mass Spectrometry, **35** (2000) 711.
24. B. Török, K. Balázsik, M. Török, **Gy. Szöllösi**, M. Bartók.
Asymmetric Sonochemical Reactions. Enantioselective Hydrogenation of α -ketoesters over Platinum Catalysts.
Ultrasonics Sonochem., **7** (2000) 151.
25. T. Bartók, K. Felföldi, **Gy. Szöllösi**, M. Bartók, J. Thiel, Z. Dega-Szafran.
Mass Spectra of Iso-cinchona- and Halogenated Cinchona Alkaloids.
Eur. J. Mass Spectrometry, **6** (2000) 347.
26. M. Bartók, P.T. Szabó, T. Bartók, **Gy. Szöllösi**.
Identification of Ethyl Pyruvate and Dihydrocinchonidine Adducts by ESI-MS and ESI-MS-MS Methods.
Rapid Commun. Mass Spectrometry, **14** (2000) 509.
27. M. Bartók, K. Balázsik, **Gy. Szöllösi**, T. Bartók.
Solvent and Support Effects in the case of Acetic Acid and Alumina: Oxonium Cations in Asymmetric Hydrogenation of Ethyl Pyruvate over Dihydro-cinchonidine Modified Platinum.
Catal. Commun., **2** (2001) 269.
28. **Gy. Szöllösi**, Cs. Somlai, P.T. Szabó, M. Bartók.
Heterogeneous asymmetric reactions Part 21. Amino acid derived modifiers in the enantioselective hydrogenation of ethyl pyruvate over supported platinum catalyst.
J. Mol. Catal. A: Chem., **170** (2001) 165.
29. I. Kun, **Gy. Szöllösi**, M. Bartók.
Crotonaldehyde Hydrogenation over Clay-Supported Platinum Catalysts.
J. Mol. Catal. A: Chem., **169** (2001) 235.
30. Á. Mastalir, Z. Király, **Gy. Szöllösi**, M. Bartók.
Stereoselective hydrogenation of 1-phenyl-1-pentyne over low-loaded Pd-montmorillonite catalysts.
Appl. Catal. A: Gen., **213** (2001) 133.
31. **Gy. Szöllösi***, I. Kun, M. Bartók.
Heterogeneous asymmetric reactions Part 24. Heterogeneous Catalytic Enantioselective Hydrogenation of the C=N Group over Cinchona Alkaloid Modified Palladium Catalyst.
Chirality, **13** (2001) 619.
32. M. Bartók, P.T. Szabó, T. Bartók, **Gy. Szöllösi**, K. Balázsik.
Identification of new types of aluminum compounds by electrospray ionization mass spectrometry: oxonium cations.
Rapid Commun. Mass Spectrometry, **15** (2001) 65.
33. **Gy. Szöllösi***, M. Bartók.
Enantioselective Michael Addition Catalyzed by Cinchona Alkaloids.
Chirality, **13** (2001) 614.
34. **Gy. Szöllösi***, I. Kun, Á. Mastalir, M. Bartók, I. Dékány.
Preparation, characterization and application of platinum catalysts immobilized on clays.
Solid State Ionics, **141-142** (2001) 273.

* corresponding author

35. **Gy. Szöllősi**, Á. Mastalir, M. Bartók.
Effect of Ion-Exchange by an Organic Cation on Platinum Immobilization on Clays.
React. Kinet. Catal. Lett., **74** (2001) 241.
36. M. Bartók, M. Sutyinszki, K. Felföldi, **Gy. Szöllősi**.
Unexpected Change of the Sense of the Enantioselective Hydrogenation of Ethyl Pyruvate Catalyzed by a Pt-alumina-cinchona alkaloid System.
Chem. Commun., (2002) 1130.
37. M. Bartók, K. Balázsik, **Gy. Szöllősi**, T. Bartók.
Electrospray Ionization-Mass Spectrometry in the Enantioselective Hydrogenation of Ethyl Pyruvate Catalyzed by Dihydrocinchonidine Modified Pt/Al₂O₃ in Acetic Acid.
J. Catal., **205** (2002) 168.
38. M. Bartók, **Gy. Szöllősi**, K. Balázsik, T. Bartók.
Heterogeneous Asymmetric Reactions. Part 25. On the Pretreatment and Prehydrogenation of Pt-alumina Catalyst in the Hydrogenation of Ethyl Pyruvate.
J. Mol. Catal. A: Chem., **177** (2002) 299.
39. Á. Mastalir, **Gy. Szöllősi**, Z. Király, Zs. Rázga.
Preparation and characterization of platinum nanoparticles immobilized in dihydrocinchonidine-modified montmorillonite and hectorite.
Appl. Clay Sci., **22** (2002) 9.
40. M. Bartók, T. Bartók, **Gy. Szöllősi**, K. Felföldi.
The Formation and Investigation of Acetyl Pyridinium-Ethyl Pyruvate Adducts by Electrospray Ionization Mass Spectrometry.
J. Mass Spectrometry, **37** (2002) 1034.
41. **Gy. Szöllősi***, G. London, L. Balásperi, Cs. Somlai, M. Bartók.
Enantioselective Direct Aldol Addition of Acetone to Aliphatic Aldehydes.
Chirality, **15** (2003) S90.
42. **Gy. Szöllősi***, P. Forgó, M. Bartók.
Hydrogenation of Cinchona Alkaloids over Supported Pt Catalyst.
Chirality, **15** (2003) S82.
43. M. Bartók, M. Sutyinszki, K. Balázsik, **Gy. Szöllősi**.
Enantioselective hydrogenation of ethyl pyruvate catalyzed by cinchonine-modified Pt/Al₂O₃: tilted adsorption geometry of cinchonine.
Catal. Lett., **100** (2005) 161.
44. **Gy. Szöllősi***, T. Hanaoka, S. Niwa, F. Mizukami, M. Bartók.
Increased Enantioselectivity in the Presence of Benzylamine in the Heterogeneous Hydrogenation of α,β -Unsaturated Carboxylic Acids.
J. Catal., **231** (2005) 480.
45. K. Szőri, **Gy. Szöllősi**, K. Felföldi, M. Bartók.
A novel asymmetric heterogeneous catalytic reaction: Hydrogenation of ethyl 2-acetoxyacrylate on cinchonidine modified Pd and Pt catalyst.
React. Kinet. Catal. Lett., **84** (2005) 151.

* corresponding author

46. **Gy. Szöllősi***, S. Niwa, T. Hanaoka, F. Mizukami.
Enantioselective Hydrogenation of α,β -Unsaturated Carboxylic Acids over Cinchonidine Modified Pd Catalysts. Effect of Substrate Structure on the Adsorption Mode.
J. Mol. Catal. A: Chem., **230** (2005) 91.
47. M. Bartók, M. Sutyinszki, I. Bucsi, K. Felföldi, **Gy. Szöllősi**, F. Bartha, T. Bartók.
Enantioselective hydrogenation of ethyl pyruvate catalyzed by α - and β -isocinchonine-modified Pt/Al₂O₃ in toluene: inversion of enantioselectivity.
J. Catal., **231** (2005) 33.
48. I. Bucsi, **Gy. Szöllősi**, T. Bartók, M. Bartók.
Identification of novel chiral aluminium containing oxonium cations in the enantioselective hydrogenation of ethyl pyruvate catalyzed using cinchonidine modified Pt-alumina in acetic acid.
React. Kinet. Catal. Lett., **85** (2005) 361.
49. **Gy. Szöllősi***, A. Chatterjee, P. Forgó, M. Bartók, F. Mizukami.
Structure Property Relationship in *py*-Hexahydrocinchonidine Diastereomers – Ab Initio and NMR Study.
J. Phys. Chem. A, **109** (2005) 860.
50. **Gy. Szöllősi**, Á. Mastalir, Z. Király, I. Dékány.
Preparation of chirally modified Pt nanoparticles immobilized in bentonite and their applications in chemoselective and asymmetric hydrogenations.
J. Mater. Chem., **15** (2005) 2464.
51. **Gy. Szöllősi***, I. Bucsi, Sz. Cserényi, M. Bartók*.
Study of fragmentation pattern and adsorption of 9-O-(triphenylsilyl)-10,11-dihydrocinchonidine on platinum by hydrogen/deuterium exchange using electrospray ionization ion-trap tandem mass spectrometry.
Rapid Commun. Mass Spectrometry, **19** (2005) 3743.
52. S. Cserényi, K. Felföldi, K. Balázsik, **Gy. Szöllősi**, I. Bucsi, M. Bartók.
C9-O-substituted derivatives of cinchona alkaloids as chiral modifiers in the Orito-reaction: Effects of structure of modifier on sense of enantioselectivity.
J. Mol. Catal. A: Chem., **247** (2006) 108.
53. M. Bartók, K. Balázsik, I. Bucsi, **Gy. Szöllősi**.
Inversion of enantioselectivity in the hydrogenation of ketopantolactone on a Pt- β -ICN chiral catalyst.
J. Catal., **239** (2006) 74.
54. **Gy. Szöllősi**, B. Hermán, F. Fülöp, M. Bartók.
Continuous enantioselective hydrogenation of activated ketones on a Pt-CD chiral catalyst: use of H-Cube reactor system.
React. Kinet. Catal. Lett., **88** (2006) 391.
55. K. Szőri, **Gy. Szöllősi***, M. Bartók.
Dynamic Kinetic Resolution over Cinchona Modified Platinum Catalyst: Hydrogenation of Racemic Ethyl 2-Fluoroacetoacetate.
Adv. Synth. Catal., **348** (2006) 515.

* corresponding author

56. K. Szőri, **Gy. Szöllősi***, M. Bartók.
Asymmetric Hydrogenation of Racemic 2-Fluorocyclohexanone over Cinchona Modified Pt/Al₂O₃ Catalyst.
J. Catal., **244** (2006) 255.
57. **Gy. Szöllősi***, E. Szabó, M. Bartók.
Enantioselective Hydrogenation of N-Acetyl Dehydroamino Acids over Supported Palladium Catalysts.
Adv. Synth. Catal., **349** (2007) 405.
58. **Gy. Szöllősi***, K. Balázsik, M. Bartók.
Enantioselective Hydrogenation of Itaconic Acid over Cinchona Alkaloid Modified Supported Palladium Catalyst.
Appl. Catal. A: Gen., **319** (2007) 193.
59. B. Hermán, **Gy. Szöllősi***, F. Fülöp, M. Bartók.
Enantioselective hydrogenation of α,β -unsaturated carboxylic acids in fixed-bed reactor.
Appl. Catal. A: Gen., **331** (2007) 39.
60. K. Balázsik, T.A. Martinek, I. Bucsi, **Gy. Szöllősi**, G. Fogassy, M. Bartók, G.A. Olah.
A New Rigid Cinchona Modified (α -IQ) Platinum Catalyst for the Enantioselective Hydrogenation of Activated Ketones: Data to the Origin of Enantioselection.
J. Mol. Catal. A: Chem., **272** (2007) 265.
61. G. London, **Gy. Szöllősi***, M. Bartók.
Organocatalytic direct aldol reaction between acetone and α -substituted β -keto esters.
J. Mol. Catal. A: Chem., **267** (2007) 98.
62. **Gy. Szöllősi***.
Prokiralis telítetlen karbonsavak enantioszelektív hidrogénezése módosított heterogén katalizátorokon.
Magyar Kémiai Folyóirat, **113** (2007) 145.
63. K. Balázsik, I. Bucsi, Sz. Cserényi, **Gy. Szöllősi**, M. Bartók.
Methylethers of cinchona alkaloids in Pt-catalyzed hydrogenation of ethyl pyruvate and ketopantolactone: effect of stereochemical factors on the enantioselectivity.
J. Mol. Catal. A: Chem., **280** (2008) 87.
64. **Gy. Szöllősi***, K. Szőri, M. Bartók.
Heterogeneous enantioselective hydrogenation of arecaidine over cinchona alkaloid modified palladium catalyst: a novel route to enantioenriched nipecotic acid derivatives.
J. Catal., **256** (2008) 349.
65. **Gy. Szöllősi***, B. Hermán, K. Felföldi, F. Fülöp, M. Bartók.
Effect of the substituent position on the enantioselective hydrogenation of methoxy-substituted 2,3-diphenylpropenoic acids over palladium catalyst.
J. Mol. Catal. A: Chem., **290** (2008) 54.
66. K. Balázsik, Sz. Cserényi, **Gy. Szöllősi**, F. Fülöp, M. Bartók.
New data on the Orito reaction: effect of substrate structure on nonlinear phenomenon.
Catal. Lett., **125** (2008) 401.

* corresponding author

67. **Gy. Szöllősi***, Sz. Cserényi, F. Fülöp, M. Bartók*.
New data to the origin of rate enhancement on Pt-cinchona catalysed enantioselective hydrogenation of activated ketones using continuous-flow fixed-bed reactor system.
J. Catal., **260** (2008) 245.
68. **Gy. Szöllősi***, T. Varga, K. Felföldi, Sz. Cserényi, M. Bartók.
Enantioselective hydrogenation of fluorinated unsaturated carboxylic acids over cinchona alkaloid modified palladium catalyst.
Catal. Commun., **9** (2008) 421.
69. **Gy. Szöllősi***, B. Hermán, K. Felföldi, F. Fülöp, M. Bartók.
Up to 96 % Enantioselectivities in the Hydrogenation of Fluorine Substituted (*E*)-2,3-Diphenylpropenoic Acids over Cinchonidine Modified Palladium Catalyst.
Adv. Synth. Catal., **350** (2008) 2804.
70. T. A. Martinek, T. Varga, K. Balázsik, **Gy. Szöllősi**, F. Fülöp, M. Bartók.
Enantioselective hydrogenation of ketopantolactone using Pt- β -ICN chiral catalyst: correlation between the solution state concentration of a nucleophilic β -isocinchonine-ketopantolactone complex and the enantioselectivity.
J. Catal., **255** (2008) 296.
71. K. Balázsik, I. Bucsi, Sz. Cserényi, **Gy. Szöllősi**, M. Bartók.
Methylethers of cinchona alkaloids in Pt-catalyzed hydrogenation of methyl benzoylformate and pyruvaldehyde dimethyl acetal. Part 2: Effect of stereochemical factors on the enantioselectivity.
J. Mol. Catal. A: Chem., **285** (2008) 84.
72. K. Szőri, K. Balázsik, K. Felföldi, I. Bucsi, Sz. Cserényi, **Gy. Szöllősi**, E. Vass, M. Hollósi, M. Bartók.
Enantioselective hydrogenation of activated steroid ketones over Pt-alumina-cinchona alkaloids catalysts: new data on the effect of steric constraints on the enantioselection.
J. Mol. Catal. A: Chem., **294** (2008) 14.
73. K. Szőri, **Gy. Szöllősi***, M. Bartók.
Extension of the Scope of the Cinchona Alkaloid Modified Palladium Catalysts: the Enantioselective Hydrogenation of 5,6-Dihydro-2H-pyran-3-carboxylic Acid.
New J. Chem., **32** (2008) 1354.
74. K. Balázsik, **Gy. Szöllősi**, M. Bartók.
New data of nonlinear phenomenon in the heterogeneous enantioselective hydrogenation of activated ketones.
Catal. Lett., **124** (2008) 46.
75. B. Hermán, **Gy. Szöllősi***, K. Felföldi, F. Fülöp, M. Bartók.
Enantioselective hydrogenation of propenoic acids bearing heteroaromatic substituents over cinchonidine modified Pd/alumina.
Catal. Commun., **10** (2009) 1107.
76. **Gy. Szöllősi**, Sz. Cserényi, K. Balázsik, F. Fülöp, M. Bartók.
New data in the enantioselective hydrogenation of ethyl pyruvate on Pt-cinchona chiral catalyst using continuous-flow fixed-bed reactor system: the origin of rate enhancement.
J. Mol. Catal. A: Chem., **305** (2009) 155.

* corresponding author

77. K. Szőri, K. Balázsik, Sz. Cserényi, **Gy. Szöllősi***, M. Bartók*. Inversion of enantioselectivity in the 2,2,2-trifluoroacetophenone hydrogenation over Pt-alumina catalyst modified by cinchona alkaloids.
Appl. Catal. A: Gen., **362** (2009) 178.
78. **Gy. Szöllősi***, Z. Németh, K. Hernádi, M. Bartók. Preparation and characterization of TiO₂ coated multi-walled carbon nanotube-supported Pd and its catalytic performance in the asymmetric hydrogenation of α,β -unsaturated carboxylic acids.
Catal. Lett., **132** (2009) 370.
79. **Gy. Szöllősi***, Zs. Makra, M. Bartók. Effect of the achiral amine structure on the enantioselective hydrogenation of (*E*)-2-methyl-2-butenic acid over cinchonidine modified Pd catalyst.
React. Kinet. Catal. Lett., **96** (2009) 319.
80. **Gy. Szöllősi**, Sz. Cserényi, M. Bartók. Novel evidence on the role of the nucleophilic intermediate complex in the Orito-reaction: unexpected inversion in the enantioselective hydrogenation of 2,2,2-trifluoroacetophenone on Pt-cinchona chiral catalyst using continuous-flow fixed-bed reactor.
Catal. Lett., **134** (2010) 264.
81. **Gy. Szöllősi**, Sz. Cserényi, I. Bucsi, T. Bartók, F. Fülöp, M. Bartók. Origin of the Rate Enhancement and Enantiodifferentiation in the Heterogeneous Enantioselective Hydrogenation of 2,2,2-Trifluoroacetophenone over Pt/alumina using Continuous-flow Fixed-bed Reactor System.
Appl. Catal. A: Gen., **382** (2010) 263.
82. Sz. Cserényi, **Gy. Szöllősi**, K. Szőri, F. Fülöp, M. Bartók. Reversal of the ee in enantioselective hydrogenation of activated ketones in continuous-flow fixed-bed reactor system.
Catal. Commun., **12** (2010) 14.
83. **Gy. Szöllősi***, B. Hermán, E. Szabados, F. Fülöp, M. Bartók. On the scope of the cinchonidine-modified Pd catalyst in enantioselective hydrogenation; adsorption mode of (*E*)-2,3-diphenylpropenoic acids evidenced by chlorine substituted derivatives.
J. Mol. Catal. A: Chem., **333** (2010) 28.
84. **Gy. Szöllősi***, B. Hermán, F. Fülöp, M. Bartók. Cinchona methyl ethers as modifiers in the enantioselective hydrogenation of (*E*)-2,3-diphenylpropenoic acids over Pd catalyst.
J. Catal., **276** (2010) 259.
85. K. Balázsik, K. Szőri, **Gy. Szöllősi**, M. Bartók. The first case of competitive heterogeneously catalyzed enantioselective hydrogenation of ketones.
Chem. Commun., **47** (2011) 1551.
86. D. Yu. Murzin, **Gy. Szöllősi**. Unusual behavior of modifier mixtures in heterogeneous catalysis: beyond nonlinear phenomena.
React. Kinet. Mech. Catal., **103** (2011) 1.

* corresponding author

87. M. Sipiczki, A. Mayer, **Gy. Szöllősi**, P. Sipos, I. Pálinkó.
Organic-inorganic hybrid functional materials – synthesis, characterisation and catalytic applications.
New Trends in Coordination, Bioorganic and Applied Inorganic Chemistry, (2011) 496.
88. K. Balázsik, K. Szőri, **Gy. Szöllősi***, M. Bartók.
New phenomenon in competitive hydrogenation of binary mixtures of activated ketones over unmodified and cinchonidine-modified Pt/alumina catalyst.
Catal. Commun., **12** (2011) 1410.
89. **Gy. Szöllősi***, I. Busygin, B. Hermán, R. Leino, I. Bucsi, D. Yu. Murzin, F. Fülöp, M. Bartók.
Inversion of the enantioselectivity in the hydrogenation of (*E*)-2,3-diphenylpropenoic acids over Pd chiral surface sites reshaped by cinchonidine silyl ethers.
ACS Catalysis, **1** (2011) 1316.
90. **Gy. Szöllősi***, Zs. Makra, F. Fülöp, M. Bartók.
The first case of competitive heterogeneously catalyzed hydrogenation using continuous-flow fixed-bed reactor system: hydrogenation of binary mixtures of activated ketones on Pt-alumina and on Pt-alumina-cinchonidine catalysts.
Catal. Lett., **141** (2011) 1616.
91. Zs. Makra, **Gy. Szöllősi**, M. Bartók.
Achiral amine additives in the enantioselective hydrogenation of aliphatic α,β -unsaturated acids over cinchonidine-modified Pd catalyst.
Catal. Today, **181** (2012) 56.
92. **Gy. Szöllősi***, M. Bartók.
Substituent position driven reaction pathways in the heterogeneous one-pot reduction/asymmetric hydrogenation of nitro-substituted (*E*)-2,3-diphenylpropenoic acids over Pd catalyst.
Arkivoc, v (2012) 16.
93. **Gy. Szöllősi***.
Heterogeneous enantioselective hydrogenation of hydroxy-substituted (*E*)-2,3-diphenylpropenoic acids over Pd/Al₂O₃ modified by cinchonidine.
Catal. Lett., **142** (2012) 345.
94. K. Balázsik, **Gy. Szöllősi***, O. Berkesi, G. Szalontai, F. Fülöp, M. Bartók*.
Heterogeneous asymmetric hydrogenation of *N*-heterocyclic compounds: hydrogenation of tetrahydroisoquinoline derivatives.
Topics Catal., **55** (2012) 880.
95. M. Sipiczki, D. F. Srankó, **Gy. Szöllősi**, Á. Kukovecz, Z. Kónya, P. Sipos, I. Pálinkó.
Preparation, characterization and some reactions of organocatalysts immobilized between the layers of a CaFe-layered double hydroxide.
Topics Catal., **55** (2012) 858.
96. **Gy. Szöllősi***, Zs. Makra, M. Fekete, F. Fülöp, M. Bartók*.
Heterogeneous enantioselective hydrogenation in a continuous-flow fixed-bed reactor system: hydrogenation of activated ketones and their binary mixtures on Pt-alumina-cinchona alkaloid catalysts.
Catal. Lett., **142** (2012) 889.

* corresponding author

97. **Gy. Szöllősi***, K. Balázsik, I. Bucsi, T. Bartók, M. Bartók*. Modifier-substrate interactions of various types in the Orito reaction: reversal of the enantioselection in the hydrogenation of ketopantolactone on Pt modified by β -isocinchonine and O-phenylcinchonidine. *Catal. Commun.*, **32** (2013) 81.
98. K. Szőri, R. Puskás, **Gy. Szöllősi***, I. Bertóti, J. Szépvölgyi, M. Bartók*. Palladium Nanoparticle-Graphene Catalysts for Asymmetric Hydrogenation. *Catal. Lett.*, **143** (2013) 539.
99. **Gy. Szöllősi***, Zs. Makra, L. Kovács, F. Fülöp, M. Bartók. Preparation of Optically Enriched 3-Hydroxy-3,4-dihydroquinolin-2(1*H*)-ones by Heterogeneous Catalytic Cascade Reaction over Supported Platinum Catalyst. *Adv. Synth. Catal.*, **355** (2013) 1623.
100. Zs. Makra, **Gy. Szöllősi***. Hydrogenation of (*E*)-2-methyl-2-butenoic acid over cinchona-modified Pd catalyst in the presence of achiral amines: solvent and modifier effect. *Catal. Commun.*, **46** (2014) 113.
101. **Gy. Szöllősi***, A. Csámpai, Cs. Somlai, M. Fekete, M. Bartók*. Unusual enantioselectivities in heterogeneous organocatalyzed reactions: Reversal of direction using proline di- versus tri-peptides in the aldol addition. *J. Mol. Catal. A: Chem.*, **382** (2014) 86.
102. **Gy. Szöllősi***, M. Fekete, A.A. Gurka, M. Bartók*. Reversal of enantioselectivity in aldol reaction: new data on proline/ γ -alumina organic-inorganic hybrid catalysts. *Catal. Lett.*, **144** (2014) 478.
103. A. Gurka, I. Bucsi, L. Kovács, **Gy. Szöllősi***, M. Bartók*. Reversal of the enantioselectivity in aldol addition over immobilized di- and tripeptides: studies under continuous flow conditions. *RSC Adv.*, **4** (2014) 61611.
104. **Gy. Szöllősi***. Királisan módosított fémfelülettel katalizált aszimmetrikus kaszkád reakciók. *Magyar Kém. Folyóirat*, **120** (2014) 77.
105. **Gy. Szöllősi***, L. Kovács, Zs. Makra. Tree consecutive steps over chirally modified Pt surface: asymmetric catalytic cascade reaction of 2-nitropyruvate. *Catal. Sci. Technol.*, **5** (2015) 697.
106. T. Firkala, E. Tálas, S. Kristyán, **Gy. Szöllősi***, E. Drotár, J. Mink, J. Mihály. Surface Enhanced Raman Spectroscopic (SERS) behavior of substituted propenoic acids used in heterogeneous catalytic asymmetric hydrogenations. *J. Raman Spectr.*, **46** (2015) 1102.
107. A.A. Gurka, K. Szőri, **Gy. Szöllősi**, M. Bartók, G. London*. Tuning the sense of product stereochemistry in aldol reactions of acetone and aromatic aldehydes in the presence of water with a single chiral catalyst. *Tetrahedron Lett.*, **56** (2015) 7201.

108. L. Kovács, **Gy. Szöllősi***, F. Fülöp.
Three consecutive steps over chirally modified Pt surface: asymmetric catalytic cascade reaction of 2-nitropyruvate.
J. Flow Chem., **5** (2015) 210.
109. K. Szóri, B. Réti, **Gy. Szöllősi**, K. Hernádi, M. Bartók*.
Comparative study of graphite-oxide and graphene-oxide supported proline organocatalysts in asymmetric aldol addition.
Topics Catal., **59** (2016) 1227.
110. I.M. Mándity, S.B. Ötvös, **Gy. Szöllősi**, F. Fülöp*.
Harnessing the versatility of continuous-flow processes: selective and efficient reactions.
Chem. Record, **16** (2016) 1018.
111. **Gy. Szöllősi***, M. Bartók*.
Enantioszelektív hidrogénezések módosított fémkatalizátorokkal.
Magyar Kém. Lapja, **71** (2016) 178.
112. **Gy. Szöllősi***, L. Kovács, V. Kozma, V.J. Kolcsár.
Asymmetric Michael addition catalysed by cinkona alkaloid derivative non-covalently immobilized on layered inorganic supports.
React. Kinet. Mech. Catal., (2017) DOI 10.1007/s11144-017-1144-8.