

PUBLIKÁCIÓKRA KAPOTT HIVATKOZÁSOK
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Valamennyi közlemény idézettsége összesen: 1360

A legtöbbet idézett közlemény idézettségi száma: 121

1. Dévay, J., Lengyel, B., Ir.Sayed Sabet Abd el Rehim, Bakos, J.:
Study of the A.C.Corrosion of Nickel by Linear polarization.
Acta Chim. Acad. Sci. Hung., 74, 193 (1972).
 1. Chin, D. T.: Elchem. SO. 126, 1908 (1978)
 2. Venkates, S.: Isr. J. Chem. 18, 56 (1979) R
 3. Sethi, R.: J. Elec. Chem. 160, 79 (1984)
 4. Walter, G. W.: Corros. Sci. 26, 39 (1986) R
 5. Tan, T. C.: J. Appl. Elec. 18, 831 (1988)

2. Markó, L., Bakos, J.:
Homogeneous Reductive Amination with Cobalt and Rhodium Carbonyls as Catalysts.
J. Organomet. Chem. 81, 41 (1974).
 1. White, C.: Spr. Or. Chem. 4, 397 (1975) R
 2. Birch, A. J.: Book: 00230, 1976, I. R
 3. Birch, A. J.: Book: 00272, 1976, 1. R
 4. Alper, H.: Bk*05330 33, 121 (1978)
 5. Henrico, G.: J. Mol. Catal. , 379 (1978)
 6. Pino, P. L.: Chim. Ind. M.: 1, 27 (1979) R
 7. Klyner, M. V.: USP KH 49, 28 (1980) R
 8. Klyner, M. V.: Trans. Met. 5, 134 (1980)
 9. Sugi, Y.: J. Syn. Org. J. 41, 577 (1983)
 10. Vigranen, Y. T.: Koord. Khim. 15, 103 (1989)
 11. Jones, H.D.: J. Organomet. Chem. 366, 403 (1989)
 12. Katritz, A. R.: Organometal., 11, 1381 (1992)
 13. Braig, T.: J. Organomet. Chem., 455, 219 (1993)
 14. Tarasevich, Usp. Khim. 68, 61 (1999)
 15. Vigranenko, Kinet. Katal. 40, 86 (1999)
 16. Tararov, VI. Chem. Commun. 1867 (2000)

3. King, R. B., Bakos, J., Hoff, C. D., Markó, L.:
1,2-Bis(diphenylphosphino)-1-phenylethane: A Chiral Ditertiary Phosphine Derived from
Mandelic Acid Used as a Ligand in Asymmetric Homogeneous Hydrogenation Catalysts.
J. Org. Chem., 44, 1729 (1979).
 1. Brown, J. M.: Tetrahedr. L. 1979, 4859 (1979)
 2. Johnson, T. H.: J. Org. Chem. 45, 62 (1980)
 3. Brown, J. M.: J. Am. Chem. Soc. 102, 3040 (1980)
 4. Yamamoto, K.: B. Chem. 45, 5137 (1980)
 5. Riley, D. P.: J. Org. Chem. 45, 5187 (1980)
 6. Allen, D. W.: Bk* 17056, 11, 981
 7. Bergstein, W.: Synthesis 76 (1981)
 8. Caplar, V.: Synthesis 85 (1981)
 9. Fleet, G. W. J.: Bk. 18274, 173 (1981)
 10. Hegedüs, L. S.: J. Organomet. Chem. 207, 185 (1981)
 11. Knight, D.W.: Bk* 18849,4,87(1981)
 12. Kreuzfeld, H. J.: React. Kim. C. 16, 229 (1981)
 13. Kyba, E. P.: Inorg. Chem. 20, 3616 (1981)
 14. Samuel, O.: Now.J.Chim. 5,15 (1981)
 15. White, C: Bk* 19627,9,374 (1981) R

16. Amma, J. P.: *J.Org.Chem.* 47, 468 (1982)
17. Consiglio, G.: *Inorg.Chem.* 21,455 (1982)
18. Morandin, F.: *Inorg.Ch.A.* 57, 15 (1982)
19. Brown, J. M.: *J.C. S. Perkin E*, 489 (1982)
20. Lafont, D.: *J. C. R. S.*: 117 (1982)
21. Yoshikun, T.: *Inorg.Chem.* 21,2189 (1982)
22. Klabunov, E.: *Uszp. Him.* 51, 1103 (1982)
23. Dranz, K.: *Angew. Chem.* 21, 584 (1982)
24. Riley, D. P.: *J. Organomet. Chem.* 234, 85 (1982)
25. Hayashi, T.: *J. Syn. Org. J.* 41, 239 (1983)R
26. Pavlov, V. A. : *D. A. N. SSSR*, 269, 856 (1983)
27. Lafont, D.: *Nouw. Chem.* 7, 283 (1983)
28. Oliver, J. D.: *Organometal.* 2, 1032 (1983)
29. Norandini, F.: *J. C. S. Dalton* 2293 (1983)
30. Pavlov, V. A.: *B. Acad. Sci.* 32, 1820 (1983)
31. Consiglio, G.: *J.Organomet. Chem.* 279, 193(1985)
32. Amrani, Y.: *J. Mol. Catal.* 32, 193 (1985)
33. Consiglio, G.: *J.Organomet. Chem.* 279, 193 (1985)
34. Dobashi, Y.: *J. Am. Chem. Soc.* 107, 3046 (1985)
35. Kyba, E. P.: *J. Am. Chem. Soc.* 107, 214 (1985)
36. Saito, K.: *Chem. Pharm.* 33,1342(1985)
37. Consiglio, G.: *Tetrahedron* 42, 2043 (1986)
38. Zikanova, Z.: *Coll. Czech.* 51, 1287 (1986)
39. Apsimon, . W.: *Tetrahedron R.* 42, 5157 (1986)
40. Consiglio, G.: *Chem. Rev. R* 87, 761 (1987)
41. Holah, D. D.: *J. Hetero. Chem.* 25, 155 (1988)
42. Okamoto, T.: *J.Am. Chem. S.* 110, 1187 (1988)
43. Pavlov, V. A.: *J. Mol. Catal.* 44, 217 (1988)
44. Haemers, A.: *Pharmazie* 44, 97 (1989)R
45. Fiaud, J. C.: *J. Organomet. Chem.* 370,383(1989)
46. Cervinka, O.: *Coll.Czech.* 55,2685(1990)
47. Francott, E.: *Chirality* 2,16(1990)
48. Jansen, J. F.G.A.: *Tetrahedr. A.* 1,719(1990)
49. Janssen, A. J. M.: *Tetrahedron* 47,7409(1991)
50. Morandini, F.: *J. Chem. Soc. CH.* 676(1991)
51. Zeiss, H.J.: *J. Org. Chem.* 56, 1783 (1991)
52. Saare, A.É Z. *Naturfor. B.* 47, 7409 (1991)
53. Ji, H. L.: *Organometal.* 11, 1840 (1990)
54. Tóth, I.: *Organometal.* 12, 1506 (1990)
55. Trost, B. *Bk* Comp. Org. Synth.*, Vol.8, 458 (1991)
56. Ferrabos, P.: *Tetrahedron A.* 4, 1931 (1993)
57. Morandini, *Organometal.* 12, 3495 (1993)
58. Pedragos, S.: *J. Org. Chem.* 58, 5533 (1993)
59. Brunner, H.: *Bk* (1993)
60. Tóth, I.: *Organometal.* 12, 1506 (1993)
61. Ojima, I.: *Nógrádi, M.: Stereosele. Synth., VCH*, (1995) Bk.
62. Iuliano, A.: *Tetrahedr. A.* 6, 739 (1995)
63. Morandini, F.: *Organometal.* 14, 3418 (1995)
64. Uccello, G.: *J. Org. Chem.* 62, 827 (1997)
65. Morandini, J.: *Inorg. Chim.* 258, 77, (1997)
66. Morandini, J.: *Inorg. Chim.* 282, 163, (1998)
67. Bondyopadyaya, AK. *Tetrahedron: Asymmetry* 11, 3463 (2000)
68. Uccello-Barretta, G. *J. Org. Chem.* 65, 3596 (2000)
69. Iranpoor, N. B. *Chem. Soc. Jpn.* 73,675 (2000)
70. Jiang, R.: *Chem. J. Chinese U.* 22, 936 (2001)
71. Virsu P, Liljeblad A.: *Tetrahedron: Asymmetry* 12, 2447 (2001)
72. Pavlov, V.A.: *USP KH* 70, 1175 (2001)
73. Tolstikov, A.G., Khlebnikova, T.B. *USP KH* 72, 902 (2003)
74. Zsigmond, A., Balatoni, I., Notheisz, F., et al.: *Catal. Lett.* 101, 195 (2005)
75. Rui, L. Y., Cao, L., Chen, W.: *Appl. & Envir. Microbiol.* 71, 3995 (2005)
76. Wiese, B., Knuhl, G., Flubacher, D., et al.: *Eur. J. Org. Chem.* 3246 (2005)

77. Zsigmond, A., Undrala, S., Notheisz, F., et al.: Appl. Catal. A. 303, (2006)
78. Frater, T., Gubicza, L.I.: Inorg. Chim. Acta 359, 2756 (2006)
79. Chatterjee A, Joshi NN.: Indian J. Chem. B-Organ. Chem. 46, 1475 (2007)
80. Shaffer AR, Schmidt JAR.: Organomet. 27, 1259 (2008)

2008.08.05.

4. Heil, B., Tőrös, S., Bakos, J., Markó, L.:
Phosphinerhodium Complexes as Homogeneous Catalysts X. Homogeneous Hydrogenation of Ketones Using Phosphinerhodium Catalysts Modified with Triethylamine.
J. Organomet. Chem., 175, 229 (1979).

1. Kollár, L.: J. Orgmet. Chem. 192, 253 (1980)
2. Mestroni, G.: J. Orgmet. Chem. 198, 87 (1980)
3. Zassinovich, G.: J. Mol. Catal. 9, 345 (1980)
4. Riley, DP.: J. Org. Chem. 45, 5187 (1980)
5. Caplar, V.: Synthesis 85 (1981)
6. Grey, RA.: J. Am. Chem. Soc. 103, 753 (1980)
7. Hegedüs, LS.: J. Orgmet. Chem. 207, 185 (1981)
8. Jones, RCF.: Bk* 18849, 4, 138 (1981) R
9. Payne, NC.: J.Orgmet. Chem. 221, 223 (1981)
10. Samuel, O.: Now.J. Chim. 5, 15 (1981)
11. Vasapollo, G.: Inorg. Chim. A. 48, 125 (1981)
12. White, C.: Bk* 19627, 9, 37 (1981)
13. Payne, NC.: Inorg. Chem. 21, 182 (1982)
14. Beaupere, D.: J. Orgmet. Chem. 231, C49 (1982)
15. Joó, F.: J. Orgmet. Chem. 231, 63 (1982)
16. Irurepperez, J.: Afinidad 39, 224 (1982)
17. Spogliarich, R.: J. Orgmet. Chem. 240, 453 (1982)
18. Brunner, A.: Deutsch. Apoth. Ztg. 121, 982 (1981)
19. Bartók, M.: MKL 37, 193 (1982)
20. Brunner, H.: Chem. Ber. 117, 1330 (1984)
21. Brouckova, Z.: J. Mol. Catal. 30, 241 (1985)
22. Grushin, V. V.: Acc. Chem. Res. 26, 279 (1993)
23. Borner, A.: Tetrahedr. A. 4, 2219 (1993)
24. Brunner, H.: Bk (1993)
25. Matsubara, T.: J. Mol. Catal. 92, 1 (1994)
26. Ohkuma, T.: J. Syn. Org. J. 54, 553 (1996)
27. Joó, F.: Chem.-Eur. J. 7, 193 (2001)
28. Joó, F.: Aqueous Organomet. Chem. Bk. (2001)
29. Joó, F.: Account of Chem. Res. 35, 738 (2002)
30. Faller, JW, Lavoie, AR, Parr, J.: Chem. Rev. 103, 3345 (2003)
31. Wang, TT, Lee, SC.: J. Chin. Inst. Chem. Eng. 35, 179 (2004)

2008.08.05.

5. King, R. B., Bakos, J., Hoff, C. D., Markó, L.:
Poly(tertiary phosphines and arsines). 17. Poly(tertiary phosphines) Containing Terminal Neomenthyl Groups as Ligands in Asymmetric Homogeneous Hydrogenation Catalysts.
J. Org. Chem., 44, 3095 (1979).

1. Caplar, V.: Synthesis, 85 (1981)
2. Hegedüs, L. S.: J. Organometal. Chem. 207, 185* (1981)
3. Kaiser, EM.: J. Organometal. Chem. 203, 149 (1980)
4. Knight, DW.: Bk* 18849, 4, 87 (1981)
5. Mann, BE.: Bk* 19627, 9, 374 (1981)
6. White, C.: Bk* 19627 9, 374 (1981)
7. Brown, GM.: Inorg. Chem. 21, 2139 (1982)
8. Yamashita, M.: Bull. Chem. Soc. Jpn. 56, 219 (1983)

9. Hayashi, T.: J. Syn. Org. J. 41, 239 (1983)
10. Yamashita, M.: Bull. Chem. Soc. Jpn. 56, 1871 (1983)
11. Pietrusi, KM.: J. Org. Chem. 49, 1522 (1984)
12. Weid, RD.: Inorg. Chem. 23, 778 (1984)
13. Kyba, EP.: J. Am. Chem. Soc. 107, 214 (1985)
14. Anterberg, M.: Phosphorus and Sulphur 26, 143 (1986)
15. Kunze, U.: Z. Naturf. B. 42, 77 (1987)
16. Holah, D. G.: J. Hetero.Ch. 25, 155 (1988)
17. Pietrusi, KM.: Tetrahedr.L. 29, 1987 (1988)
18. Wolfsberg, W.: Chem. Zeitung. R. 112, 53 (1988)
19. Brunner, H.: J. Orgmet. CH. 413, 55 (1991)
20. Burgess, K.: Organometal. 11, 3588 (1992)
21. Brunner, H.: Bk (1993)
22. Bader, A.: J. Chem. Soc. Ch. 1405 9 (1994)
23. Pietrusi, KH.: Chem. Rev. 94, 1375 (1994)
24. Leith, J.: J. Chem. Soc. DA 649 (1995)
25. Brunner, H.: Synthesis-S. 423 (1995)
26. Bader, A.: Inorg. Chem. 35, 3874 (1996)
27. Barney, Phosphorus Sulfur 119, 113 (1996)
28. Barbaro, Organometallics 16, 3004 (1997)
29. Jia, G.: Organometal. 15, 4235 (1996)
30. Brunner, H.: Synthesis-S. 45 (1998)
31. Yamada, Tetrahedron 7, 3339 (1996)
32. Kolodiaz, OZ.: Tetrahedron: A. 9, 1279 (98)
33. Jiang, Inorg. Chim. Acta 290, 64 (1999)
34. Robert, J. Mol. Catal. A Chem. 139, 105 (1999)
35. Lee, HM.: J. Organomet. Chem. 601, 330 (2000)
36. Powell, MT.: Tetrahedron 57, 5027 (2001)
37. Barbaro, P.: Chem. Comm. 22, 2672 (2002)
38. Hintermann, L., Perseghini, M, et al.: Eur. J. Inorg. Chem. 4, 601 (2003)
39. Tolstikov AG, Khlebnikova TB, et al.: USP KH 72 (9): 902 (2003)
40. Barbaro P, Bianchini C, et al.: Eur. J. Inorg. Chem. (23): 4166 (2003)
41. Barbaro P, Bianchini C, et al.: Synthetis-Stuttgart (3): 345 (2004)
42. Delacroix O, Gaumont A.: Current Org. Chem. 9 (18): 1851 (2005)
43. Kondoh A, Yorimitsu H, Oshima K: J.Am. Chem. S. 129 (13): 4099 (2007)

2008.08.05.

6. Markó, L., Bakos, J.:
Substrates and Phosphorus Ligands Used in Asymmetric Homogeneous Hydrogenation Catalysed by Rhodium Complexes.
Aspects of Homogeneous Catalysis, Vol. 4. 145-202 (1981) D. Reidel Publishing Company, Dordrecht.

1. Cesarotti, E.: J. Mol. Catal. 12, 63 (1981)
2. Brunner, H.: Z. Naturf. B. 27, 405 (1982)
3. Lafont, D.: J. Chem. R. S. 117 (1982)
4. Halpern, J.: P. Science 217, 401 (1982)
5. Cativiel, C.: J. Mol. Catal. 16, 19 (1982)
6. Kagan, HB.: Chimia 36, 247 (1982)
7. Drauz, K.: Angew. Chem. 21, 584 (1982)
8. Murahashi, S.: J. Syn. Org. J. 40, 1027 (1982)
9. Poulin, JC.: J. C. S. Chem. Comm. 1261 (1982)
10. Mague, J. T.: J. Organomet. Chem. 242, 241 (1983)R
11. Halpern, J.: Pure Appl. Chem. 55, 99 (1983)
12. Catiriel, C.: React. Kim. Cat. 21, 173 (1983)
13. Terfort, A.: Synthesis. S. 951 (1992) N
14. Cesarotti, E.: J. Orgmet. Chem. 251, 79 (1983)
15. Cullen, NR.: Organometal. 2, 714 (1983)
16. Lafont, D.: Now J. Chim. 7, 283 (1983)
17. Rodgers, GE.: Can. J. Chem. 61, 1314 (1983)

18. Inone, M.: Chem. Pharm. 31, 337 (1983)
19. Brunner, H.: Z. Naturf. B. 28, 1332 (1983)
20. James, BR.: Organometal. 2, 1452 (1983)
21. Brunner, H.: Chem. Ber. 116, 3529 (1983)
22. Arriau, J.: J. Chem. R-S.: 106 (1984)
23. Cativiél, C.: J. Org. Chem. N 49, 2502 (1984)
24. Kellner, K.: J. Organomet. Chem. 268, 175 (1984)
25. Brunner, H.: Angew. Chem. 22, 897 (1983) R,
26. Pracejus, G.: J. Mol. Catal. 24, 227 (1984) L
27. Ryan, TA.: Coord. Chem. Rew. 57, 75 (1984) R
28. Schmidt, U.: Synthesis 53 (1984) S
29. Appleton, TD.: J. Organomet. Chem. 279, 5 (1985)
30. Jackson, W.: Aust. J. Chem. 38, 111 (1985)
31. James, BR.: J. Organomet. Chem. 279, 31 (1985)
32. Samuel, O.: Phosphorous 21, 45 (1984)
33. Amrani, Y.: J. Mol. Catal. 32, 333 (1985)
34. Dunach, E.: Tetrahedr. Lett. 26, 2649 (1985)
35. Brunner, H.: J. Organomet. Chem. 300, 39 (1986)
36. Brunner, H.: J. Organomet. Chem. 308, 55 (1986)
37. Elbaba, S.: Tetrahedron 42, 385 (1986)
38. Spogliari, R.: J. Organomet. Chem. 306, 407 (1986)
39. Beaupere, D.: Nouv. J. Chim. 10, 493 (1986)
40. Brunner, H.: Chem. Ber. 119, 2868 (1986)
41. Selke, R.: J. Mol. Catal. 37, 213 (1986)
42. Brunner, H.: Inorg. Chim. 112,65 (1986)
43. Takaya, H.: J. Org. Chem. 51, 629 (1986)
44. Pracejus, H.: J. Prakt. Chem. 329, 235 (1987)
45. Thompson, R. J.: Aust. J. Chem. 40, 1083 (1987)
46. Melillo, D. G.: J. Org. Chem. 52, 5143 (1987)
47. Selke, R.: J. Prakt. Chem. 329, 717 (1987)
48. Cabeza, JA.: J. Chem. Soc. P1, 1881 (1988)
49. Spogliari, R.: J. Mol. Catal. 50, 19 (1989)
50. Krause, HWP: New.J.Chem. 13, 615 (1989)
51. Schmidt, U.: Synthesis-S. 655 (1991)
52. Krause, H.: J. Orgmet. Chem. 423, 271 (1992)
53. Schmidt, U.: Synthesis S. 487 (1992)
54. Saare, A.: Z. Naturfo. B. 47, 247 (1992)
55. Terfort, A.:Synthesis S. 951 (1992)
56. Tóth, I.: Organometal. 12, 1506 (1992)
57. Sheldon, RA.: Chirotechn. ,Marcel Dekker Inc. (1993) Bk.
58. Armstrong, JD.: Tetrahedr. L. 35, 3239 (1994)

7. Bakos, J., Tóth, I., Markó, L.:

Use of Heterogeneous Asymmetric Hydrogenation for the Preparation of Chiral Phosphinite and its Application as a Ligand in Homogeneous Asymmetric Hydrogenation. J. Org. Chem., 46, 5427-5438 (1981)

1. Mague, JT.: J. Organomet. Chem. 268, 157 (1984)
2. Kellner, K.: J. Organomet. Chem. 268, 175 (1984)
3. Tai, A.: Tailored Met. Cat. 37, 213 (1986)
4. Selke, R.: J. Mol. Catal. 37, 213 (1986)
5. Dolmazon, R.: B. S. Chim. Fr. 1022 (1988)
6. Blaser, HV.: Tetrahedr. A. 2, 843 (1991)
7. Krause,HW.: New. J. Chem. 13, 615 (1989)
8. Klabunov, E.: USP KH 60, 1920(1991)
9. Hashimot, T.: Synlett 340 (1992)
10. Inoguchi, K.: Synlett 169 (1992)
11. Brunner, H.: Bk (1993)
12. Sheldon, RA.: Chirotechn. Marcel Dekker Inc. (1993)
13. Chan, ASC.: Appl. Catal. A. 119, L1 (1994)
14. Brunner, H.: Tetrahedr. A., 6,103 (1995)

15. Klabunov, EI.: USP KH 65, 350 (1996)
16. Chan, ASC.: J. Am. Chem. Soc. 119, 9570 (1997)
17. Laurenti, Org. Prep. Procedure Int. 31, 245 (1999)
18. Argouarch, G.: Eur. J. Org. Chem. 2885 (2000)
19. Chapuis C, Jacoby D: Appl. Catal. A. 221, 93 (2001)
20. Studer M, Blaser HU, Exner C: Adv. Synth. Catal. 345, 45 (2003)
21. Tang WJ, Zhang XM: Chem. Rev. 103, 3029 (2003)
22. Tugler A, Sipos E, Hadac V: ARKIVOC : 223 (2004)
23. Shimizu H, Igarashi D, Kuriyama W, et al.: Org. Lett. 9, 1655 (2007)
24. Shimizu H, Nagasaki I.: Accounts Chem. Res. 40, 1385 (2007)

2008.08.05.

8. Bakos, J., Heil, B., Markó, L:
1,4:3,6-Dianhydro-2,5-dideoxy-bis(diphenylphosphino)-L-Iditol. A New Chiral Ligand for Asymmetric Hydrogenation with Rhodium Complexes as Catalysts.
J. Organomet. Chem., 253, 249 (1983).

1. Mague, JT.: J. Orgmet. Chem. 278, 1 (1984)
2. Brown, JM.: J. Chem. Soc. P 2, 91 (1987)
3. Kvintovics, P.: J. Chem. Soc. CH. 1810 (1987)
4. Cere, V.: J. Org. Chem. 58, 4567 (1993)
5. Stoss, P.: Adv. Carb. C. 49, 93 (1991)
6. Brunner, H.: Bk. (1993)
7. Szalontai, G.: Sol. St. Nucl. 2, 245 (1993)
8. Zhou, H.: Chem Lett. 339 (1996)
9. Dahlhoff, WV.: Z. Naturfor. 51, 891 (1996)
10. Marr, A.: J. Chem. Crys. 27, 161 (1997)
11. Zhou, HY.: J. Orgmet. Chem. 543, 227 (1997)
12. XIE, BH.: Tetrahedron Lett. 39, 7365 (1998)
13. Ostercamp, F. Tetrahedron 55, 10713 (1999)
14. Laurenti, D.: Org. Prep. Proced. Int. 31, 245 (1999)
15. Reetz, MT.: Angew. Chem. Int. Edit. Engl. 38, 179 (1999)
16. Li WG. J. Org. Chem. 65, 3489 (2000)
17. Benedek, C.: J Mol. Catal. A-Chem. 165, (2001)
18. Li, QS.: Chem. J. Chinese U. 23, 1936 (2002)
19. De Coster, G.: Tetrahedron Asymmetr. 13, 1673 (2002)
20. Kurochkina GI.: Russian Chem. Bull. 52, 1009 (2003)
21. Xu LW, Xia CG.: Chinese J. Org. Chem. 23, 919 (2003)
22. Dieguez M, Pamies OP: Chem. Rev. 104, 3189 (2004)
23. Carcedo C, Dervisi A.: Chem. Commun. (10): 1236 (2004)
24. Du ZT, Yue GR.: J. Chem. Res.-S (6): 427 (2004)
25. Pamies O, Dieguez M.: Chim. Oggi-Chem. T. 22, 12 (2004)
26. Du ZT, She XG.: Chinese Chem. Lett. 15, 1389 (2004)
27. Dieguez M.: Coordin. Chem. Rev. 248, 2165 (2004)
28. Kurochkina GI.: Russian J. Gen. Chem. 74, 1616 (2004)
29. Kurochkina GI.: Russian J. Gen. Chem. 75, 49 (2005)

2008.08.05.

9. Vastag, S., Bakos, J., Törös, Sz., Takach, N. E., King, R. B., Heil, B., Markó, L.:
Rhodium Phosphine Complexes as Homogeneous Catalysts. 14. Asymmetric Hydrogenation of Schiff Base of Acetophenone. Effect of Phosphine and Catalyst Structure on Enantioselectivity.
J. Mol. Catal., 22, 283 (1984)

1. Kobayashi, K.: Chem.Lett. 2031 (1986)
2. Karim, A.: Tetrahedr.L. 27, 345 (1986)
3. Kang, G.J. : J. Chem. Soc. Ch. 1466 (1990)
4. Chan, YNC.: J. Am. Chem. Soc. 112, 9400 (1990)
5. Chan, YNC.: J. Chem. Soc. Chem. Comm. 869 (1990)

6. Cullen, WR.: J. Mol. Catal. 62, 243 (1990)
 7. Fryzuk, M. D.: Organometallics 9, 986 (1990)
 8. Kokel, N.: J. Mol. Catal. 57, L5 (1989)
 9. Oppolzer, W.: Tetrahedron L. 31, 4117 (1990)
 10. Spindler, F.: Angew. Chem. 29, 558 (1990)
 11. Becalski, A. G.: Inorg. Chem. 30, 5002 (1991)
 12. Lensink, G.: Tetrahedr. Asymmetry 3, 235 (1992)
 13. Brunner, H.: Bk (1993)
 14. Sheldon, RA.: Chirotechn. ,Marcel Dekker Inc. (1993) Bk.
 15. Zhou, Z.X.: Organometal., 14, 4209 (1995)
 16. Morimoto, Synlett 748 (1995)
 17. Sablong, R.: Tetrahedron L. 37, 4937 (1996)
 18. Buriak, JM.: Organometal. 15, 3161 (1996)
 19. Kim, EJ.: Korr. Chem. 18, 579 (1997)
 20. Hashigue, S.: J. Syn. Org. J. 55, 99 (1997)
 21. Driver, MS.: J. Am. Chem. Soc. 119, 8232 (1997)
 22. Driver, MS.: Organometal 17, 5706 (1997)
 23. Driver, MS.: Organometal. 17, 1134 (1998)
 23. Tararov, Tetrahedron Asymmetry 10, 4009 (1999)
 24. Kainz, J.: Am. Chem. Soc. 121, 6421 (1999)
 25. Kobayashi,: Chem. Rev. 99, 1069 (1999)
 26. Margalef-Catala, R.: Tetrahedron: Asymmetry 11, 1469 (2000)
 27. Buriak, J. M.: Chem. Eur. J. 6, 139 (2000)
 28. Margalef-Catala R.: Tetrahedron: A 11, 1469 (2000)
 29. Dai X, Qin ZH: Progress In Chem. 13 183 (2001)
 30. Jiang XB, Minnaard AJ, Hessen B, et al.: Org. Lett. 5 1503 (2003)
 31. Santos LS, Fernandes SA.: Tetrahedron: A 14, 2515 (2003)
 32. Nanayakkara P, Alper H: Chem. Commun. (18): 2384 (2003)
 33. Tararov VI, Kadyrov R.: Org. Prep. Proced. Int. 36 99 (2004)
 34. Guiu E, Claver C, Castillon S: J. Orgmet. Chem. 689, 1911 (2004)
 35. Trifonova A, Diesen JS, Chapman CJ, et al.: Org. Lett. 6, 3825 (2004)
 36. Guiu E, Claver C.: Tetrahedron: Asymmetry 15, 3365 (2004)
 37. Tararov VI, Borner A: Synlett (2): 203 (2005)
 38. Trifonova A, Diesen JS, Andersson PG: Chem. Eur. J. 12, 2318 (2006)
 39. Qiu LQ, Kwong FY, Wu J, et al.: J. Am. Chem. S. 128 5955 (2006)
 40. Yang Q, Shang G.: Angew. Chem. Int. Ed. E 45, 3832 (2006)
 41. Faller JW, Milheiro SC, Parr J: J. Orgmet. Chem. 691, 4945 (2006)
 42. Pavlov VA.: Tetrahedron 64, 1147 (2008)
- 2008.08.05.

10. Bakos, J., Tóth, I., Heil, B., Markó, L.:
A Facile Method for the Preparation of 2,4-Bis(diphenylphosphino)pentane (BDPP)
Enantiomers and their Application in Asymmetric Hydrogenation.
J. Organomet. Chem. 279, 23 (1985).
 1. Thorburn, IS.: Inorg. Chem. 25, 234 (1986)
 2. Selke, R.: J. Mol. Catal. 37, 213 (1986)
 3. Kvintovics, P.: J. Chem. Soc. CH. (24) 1810 (1986)
 4. Brown, JM.: J. Chem. Soc. P 2 (1) 91 (1987)
 5. Mague, JT.: J. Orgmet. Chem. R 324, 57 (1987)
 6. James, RB.: J. Mol. Catal. 41, 147 (1987)
 8. Baker, KV.: J. Orgmet. Chem. 370, 397 (1989)
 9. Fiaud, JC.: J. Orgmet. Chem. 370, 383 (1989)
 10. Selke, R.: J. Orgmet. Chem. 370, 249 (1989)
 11. Sunjic, V.: J.Orgmet. Chem. 370, 295 (1989)
 12. Zassinovich, G.: J. Orgmet. Chem. 370, 187 (1989)
 13. Shimizu, N.: Chem. Pharm. 37, 1023 (1989)
 14. Chan, ASC.: J. Mol. Catal. 49, 165 (1989)
 15. Mestroni, G.: J. Mol. Catal. 49, 175 (1989)
 16. Amrani, Y.: Organomet. 8, 542 (1989)
 17. Skoda, FR.: J. Orgmet. Chem. 366, 275 (1989)

18. Kollár, L.: *J. Orgmet. Chem.* 379, 191 (1989)
19. Ojima, I.: *Tetrahedr. L.* 45, 6901 (1989)
20. Whitesel, JK.: *Chem. Rev.* 89, 1581 (1989)
21. Ikeda, S.: *B. Chem. S. J.*, 62, 3508 (1989)
22. Yamagishi, T.: *B. Chem. S. J.* 63, 281 (1990)
23. Spindler, F.: *Angew. Chem.* 29, 558 (1990)
24. Chan, YNC.: *J. Chem. Soc. Ch.* 869 (1990)
25. Buschmann, H.: *Angew. Chem.* 30, 477 (1991)
26. Buser, HP.: *Tetrahedron* 47, 5709 (1991)
27. Brunner, H.: *J. Orgmet. Chem.* 414, 401 (1991)
28. Inoguchi, K.: *Synlett*, (1) 49 (1991)
29. Marcec, R.: *J. Mol. Cat.* 69, 25 (1991)
30. Becalski, AG.: *Inorg. Chem.* 30, 5002 (1991)
31. Brunner, H.: *Synthesis S.* (12) 1121 (1991)
32. Lensink, C.: *Tetrahedron: Asymmetry* 3, 235 (1992)
33. Brunner, H.: *Chem. Ber.* 125, 2085 (1992)
34. Brunner, H.: *Bk.* (1993)
35. Jendralla, H.: *Synth. Stutt.* (5) 494 (1994)
36. Zhang, XY.: *Tetrahedr. A.* 5, 1179 (1994)
37. Mckinstry, L.: *Tetrahedr. A.* 35, 9319 (1994)
38. Ohkuma, T.: *J. Am. Chem. Soc.* 117, 2675 (1995)
39. Morimoto, T.: *Tetrahedr. A.* 6, 2661 (1995)
40. Morimoto, T.: *Synlett.* (7) 748, (1995)
41. Ohta, T.: *J. Orgmet. Ch.*, 502, 169 (1995)
42. Zhou, Z.X.: *Organometal.*, 14, 4209 (1995)
43. Mckinstry, L.: *Tetrahedron* 51, 7655 (1995)
44. Ding, H.: *Angew. Ch.* 34, 1645 (1995)
45. Brunner, H.: *Tetrahedr. A.* 6, 919 (1995)
46. Akutagaw, S.: *Appl. Catal. A.* 128, 171 (1995)
47. Ikeda, H.: *Tetrahedron* 52, 8113 (1996)
48. Sablong, R.: *Tetrahedr. L.* 37, 4937 (1996)
49. Haar, CM.: *Organometal.* 15, 1765 (1996)
50. Uematsu, N.: *J. Am. Chem. Soc.* 118, 4916 (1996)
51. Ohkuma, T.: *J. Syn. Org. J.* 54, 553 (1996)
52. Schnider, P.: *Chem. Eur. J.* 3, 887 (1997)
53. Brunner, H.: *Chem. Ber.* 130, 55 (1997)
54. Hasique, S.: *J. Syn. Org. J.* 55, 99 (1997)
55. Inagaki, K.: *J. Organomet. Chem.* 531, 159 (1997)
56. Yamada, I.: *J. Organomet. Chem.* 539, 115 (1997)
57. Carpentier, JF.: *Tetrahedron: A.* 8, 1083 (1997)
58. Blanc, D.: *Tetrahedron L.* 38, 6603 (1997)
59. Hashiguchi, S.: *J. Syn. Org. J.* 55, 99 (1997)
60. Driver, MS.: *J. Am. Chem. Soc.* 119, 8232 (1997)
61. Driver, MS.: *Organometallics* 16, 5706 (1997)
62. Nagel, U.: *Z. Naturfo. B.* 53, 267 (1998)
63. Jiang, QZ.: *Angew. Chem.* 37, 1100 (1998)
64. Driver, MS.: *Organometallics* 17, 1134 (1998)
65. Joo, F.: *Inorg. Synth.* 32, 1 (1998)
66. Zhu, GX.: *Tetrahedron A.* 9, 2415 (1998)
67. Ohkuma, T.: *J. Am. Chem. Soc.* 120, 13529 (1998)
68. Buriak, JM.: *Chem. Eur. J.* 6, 139 (1999)
69. Bianchini, C.: *New J. Chem.* 23, 929 (1999)
70. Kainz, J. Am. Chem. Soc. 121, 6421 (1999)
71. Bianchini, C.: *Macromolecules* 32, 4183 (1999)
72. Laurenti, D.: *Org. Prep. Proced. Int.* 31, 245 (1999)
73. Kobayashi, S.: *Chem. Rev.* 99, 1069 (1999)
74. Cao, P.: *J. Org. Chem.* 64, 2127 (1999)
75. Dwars, T.: *Phosphorus and Sulphur* 158, 209 (2000)
76. Bianchini, C.: *Organometallics*, 19, 2450 (2000)
77. Murahashi, SI. *Chem. Commun.* 409 (2000)
78. Buriak, JM. *Chem-Eur* 6, 139 (2000)

79. Bianchini, C. J. *Organomet. Chem.* 621, 26 (2001)
80. Noyori, R.: *Angew. Chem. Int. Edit.* 40, 40 (2001)
81. Noyori, R.: *Angew. Chem. Int. Edit.* 41, 2008 (2002)
82. Noyori R: *Adv. Synth. Catal.* 345, 15 (2003)
83. Temba ESC, de Oliveira IMF: *Quimica Nova* 26, 112 (2003)
84. Xie JH, Wang LX.: *J. Am. Chem. S.* 125, 4404 (2003)
85. Portscheller JL.: *Organometallics* 22, 2961 (2003)
86. Tang WJ, Zhang XM: *Chem. Rev.* 103, 3029 (2003)
87. Masdeu-Bulto AM.: *Coordin. Chem. Rev.* 242, 159 (2003)
88. Santos LS, Fernandes SA.: *Tetrahedron: A* 14, 2515 (2003)
89. Mikami K, Yusa Y.: *Chem. Commun.* (1): 98 (2004)
90. Mikami K, Yusa Y.: *Tetrahedron* 60, 4475 (2004)
91. Herseczki Z, Gergely I.: *Tetrahedron: A* 15, 1673 (2004)
92. Hoge B, Thosen C.: *J. Fluoride Chem.* 125, 831 (2004)
93. Blanc C.: *Tetrahedron: A.* 15, 2159 (2004)
94. Guiu E, Claver C.: *Tetrahedron: A.* 15, 3365 (2004)
95. Zsigmond A.: *Catal. Lett.* 101, 195 (2005)
96. Fernandez F.: *Organometallics* 24, 3946 (2005)
97. Cui XH, Burgess K: *Chem. Rev.* 105, 3272 (2005)
98. Robe E, Ortega C: *Organometallics* 24, 5549 (2005)
99. Liu SF, Berry N.: *J. Org. Chem.* 71, 7467 (2006)
100. Aikawa K.: *J. Am. Chem. S.* 128, 12648 (2006)
101. Hoge B, Panne P: *Chem. Eur. J.* 12, 9025 (2006)
102. Hoge B, Thosen C.: *Chem. Eur. J.* 12, 9019 (2006)

2008.08.05.

11. Bakos, J., Tóth, I., Heil, B.:
Asymmetric Hydrogenation Using Chiral Phosphinite Rhodium Complexes.
Tetrahedron Lett., 25, 4965 (1984).

1. Markó, L.: *J. Organomet. Chem.* 305, 333 (1986)
2. Selke, R.: *J. Mol. Catal.* 37, 213 (1986)
3. Mague, JT.: *J. Orgmet. Chem.* 324, 57 (1987)
4. Brunner, H.: *J. Orgmet. Chem.* 334, 369 (1987)
5. Kochetko, K. A.: *USP KH, R* 56, 1832 (1987)
6. Ojima, I.: *Tetrahedron L.* 45, 6901 (1989)
7. Trost, B. *Bk* Comp. Org. Synth.*, Vol.8, 458 (1991)
8. Sakaki, J.: *Helv. Chim. A.* 76, 2654 (1993)
9. Brunner, H.: *Bk.* (1993)
10. Pini, P.: *Tetrahedr. A.* 6, 1031 (1995)
11. Chan, ASC.: *J. Am. Chem. Soc.* 119, 9570 (1998)
12. Zhu, GX.: *J. Org. Chem.* 63, 3133 (1998)
13. Joó, F.: *Inorg. Synth.* 32, 1 (1998)
14. Pavlov VA: *USP KH* 70, 1175 (2001)
15. Yamada T, Nagata T.: *J. Synt. Org. Chem. Japan* 61, 843 (2003)
16. Dubrovina NV, Tararov VI.: *Tetrahedron: Asymmetry* 14: 2739 (2003)
17. Yamada T, Nagata T, Sugi KD, et al.: *Chem. Eur. J.* 9, 4485 (2003)
18. Gergely I, Hegedus C, Szollosy A, et al.: *Tetrahedr. L.* 44, 9025 (2003)
19. Zeng QL, Mi AQ, Jiang YH: *Prog. In Chem.* 16, 603 (2004)

2008.08.05.

12. Kvintovics, P., Bakos, J., Heil, B.:
Asymmetric Transfer Hydrogenation of Ketones Catalyzed by Iridium(I),
Rhodium(I) complexes.
J. Mol. Catal., 32, 111 (1985).

1. Mague, JT.: *J. Orgmet. Chem. R* 351, 215 (1988)
2. Pillai, SM.: *J. Sci. Ind. R* 47, 460 (1988)
3. Chin, CS. : *Polyhedron*, 8, 121 (1989)

4. Chauvin, R.: J. Mol. Catal. 62, 147 (1990)
5. Zassinovich, G.: Chem. Rev. 92, 1051 (1992)
6. Esteruel, M. A.: Inorg. Chem. 31, 5580 (1992)
7. Brunner, H.: Bk. (1993)
8. Liang, FP.: Organometallics 19, 1950 (2000)
9. Thorpe T, Blacker J, Brown SM, et al.: Tetrahedr. Lett. 42, 4041 (2001)
10. Schluncken C, Esteruelas MA.: Eur. J. Inorg. Chem. (12): 2477 (2004)
11. Phillips AD, Bolano S.: Organometallics 25, 2189 (2006)

2008.08.05

13. Szalontai, G., Bakos, J., Tóth, I., Heil, B.:
(4R,6R)-4,6-Dimetil-1,3-dioxa-2-foszfóránok térszerkezetének vizsgálata ³¹P, ¹³C és ¹H NMR spektroszkópia alkalmazásával.
Kém. Közlem., 66, 142 (1986).

1. Brunner, H.: Bk. (1993)

14. Bakos, J., Tóth, I., Szalontai, G., Heil, B.:
Aszimmetrikus homogénkatalitikus hidrogénezés intermedierjeinek vizsgálata ³¹P NMR spektroszkópia alkalmazásával.
Kém. Közlem., 66, 153 (1986).

1. Brunner, H.: Bk. (1993)

15. Szalontai, G., Bakos, J., Tóth, I., Sohár, P., Heil, B.:
¹³C, ³¹P and ¹H NMR Studies of the Stereochemistry of Chiral 2-Substituted
(4R,6R)-4,6-Dimethyl-1,3,2-dioxaphosphorinane.
Magn. Res. Chem., 24, 890 (1986).

1. Gray, GM.: J. Orgmet. Chem. 434, 181 (1992)
2. Sohár, P.: Magy. Kém. FO. 100, 469 (1994)
3. Scherer, J.: J. Orgmet. Chem. 520, 45 (1996)
4. Pouysegú, L.: Magn. Reson. Chem. 38, 668 (2000)

2008.08.05.

16. Szalontai, G., Bakos, J., Tóth, I., Heil, B.:
¹³C, ³¹P and ¹H NMR Studies of Chiral Bis[(4R,6R)-4,6-dimethyl-1,3,2-dioxaphosphorin-2-yl/oxy]-alkane Derivatives. Coupling Between Phosphorus Atoms Six Bonds Apart.
Magn. Res. Chem., 25, 761-765 (1987).

1. Trost, BM.: J. Am. Chem. Soc. 113, 9007 (1991)
2. Trost, BM.: Tetrahedron L. 33, 717 (1992)
3. Pastor, SD.: J. Am. Chem. Soc. 110, 6547 (1988)
4. Wink, DJ.: Inorg. Chem. 29, 5006 (1990)
5. Pastor, SD.: Helv. Chim. Acta 76, 1900 (1993)
6. Sohár, P: Magy. Kém. Foly. 100, 469 (1994)
7. Curic, M.: Magn. Res. Chem. 33, 27 (1995)
8. Trost, BM.: Tetrahedr. Letters 36, 2917 (1995)
9. Trost, BM.: J. A. Chem. Soc. 117, 3284 (1995)
10. Pastor, SD.: Phosphorus Sulfur 90, 95 (1994)
11. Pastor, SD.: Inorg. Chem. 35, 949 (1996)
12. Scherer, J.: J. Orgmet. Chem. 520, 45 (1996)
13. Stolmar, M.: Inorg. Chem. 36, 1694 (1997)
14. Prevote, D.: J. Org. Chem. 62, 4834 (1997)
15. Pouysegú, L. Magn. Reson. Chem. 38, 668 (2000)
16. Herseczki Z, Gergely I.: Tetrahedron: A 15, 1673 (2004)

2008.08.05.

7. Lecomte, L., Triolet, J., Sinou, D., Bakos, J., Heil, B.:
A High Performance Liquid Chromatographic Technique for Separation of Sulphonated Phosphines.
J. Chromatogr., 408, 416 (1987).
1. Bartik, T.: Inorg. Chem. 31, 2667 (1992)
 2. Kalck, P.: Adv. in Orgmet. Chem. 34, 219 (1992)
 3. Herrmann, WA.: Angew. Chem. Int. Edit. Engl. 32, 1524 (1993)
 4. Bartik, T.: Inorg. Chem. 35, 264 (1994)
 5. Horváth, IT.: Aqueous Orgmet. Chem. Catal. 10 (1995)
 6. Paetzold, E.: J. Prak. Ch. 339, 38 (1997)
 7. Joo F, Kovacs J.: Inorg. Synth. 32, 1 (1998)
 8. Gelpke, AES.: Chem. Eur. J. 5, 2472 (1999)
 9. Mul, WP.: Adv. Synth. Catal. 344, 293 (2002)
- 2008.08.05.
18. Bakos, J., Tóth, I., Szalontai, G., Heil, B.:
³¹P NMR Studies of Rhodium Complexes Containing Chelating Diphosphine.
Phosphorus Sulphur, 30 (3-4), 658 (1987)
19. Bakos, J., Párkányi, L., Speier, G., Tyeklár, Z.:
Synthesis and Structure of Some 1,3,2-Oxazaphospholenes.
Phosphorus Sulphur, 30, 758 (1987).
20. Szalontai, G., Bakos, J., Tóth, I., Heil, B., Pelczer, I., Sohár, P.:
¹H, ¹³C and ³¹P NMR Studies of the Stereochemistry of Chiral 2-Substituted
(4R,6R)-Dimethyl-1,3,2-dioxaphosphorinanes.
Phosphorus Sulphur, 30, 734 (1987)
1. Pastor, SD.: J. Am. Chem. Soc. 110, 6547 (1988)
 2. Wink, DJ.: Inorg. Chem. 29, 5006 (1990)
 3. Pastor, SD.: Inorg. Chem. 35, 949 (1996)
 4. Buisman, GJH.: Organometal 16, 2929 (1997)
- 2008.08.05.
21. Kollár, L., Bakos, J., Tóth, I., Heil, B.:
Temperature Dependence of the Asymmetric Induction in the PtCl(SnCl₃)[(S,S)-BDPP] Catalyzed Enantioselective Hydroformylation Reaction.
J. Organomet. Chem. 350, 277 (1988)
1. Hermann, WA.: J. Orgmet. Chem. 389, 103 (1990)
 2. Markó, L.: J. Orgmet. Chem., 380, 429 (1990)
 3. Paganell, S.: J. Orgmet. Chem. 397, 119 (1990)
 4. Muller, G.: J. Mol. Catal. 63, 173 (1990)
 5. Scrivant, A.: J. Orgmet. Chem. 385, 439 (1990)
 6. Buschman, H.: Angew. Chem. 30, 477 (1991)
 7. Yamakawa, T.: J. Mol. Catal. 66, 321 (1991)
 8. Gomez, M.: Organometallics, 10, 4036 (1991)
 9. Consiglio, G.: J. Mol. Catal., 66, 1 (1991)
 10. Consiglio, G.: Organometal., 10, 2046 (1991)
 11. Gomez, M.: Organometal. 10, 4036 (1991)
 12. Saare, A.: Z. Naturfs. B. 47, 247 (1992)
 13. Matsubar, T.: J. Mol. Catal. 79, 29 (1993)
 14. Brunner, H.: Bk. (1993)
 15. Dunina, W.: Zh. Org. Kh. 28, 2368 (1992)
 16. March, G.: Adv. Org. Chem., John Wiley, (1992)
 17. Agbossou, F.: Chem. Rev. 95, 2485 (1995)
 18. Gladiali, S.: J. Orgmet. Ch. 491, 91 (1995)
 19. Masdeubulto, AM.: Tetrahedr. A. 6, 1885 (1995)

20. Scrivanti, A.: *J. Mol. Catal. A.* 101, 217 (1995)
21. Castella, A.: *J. Organomet. Chem.* 539, 1 (1997)
22. Naily, S.: *New J. Chem.* 21, 919 (1997)
23. Rische, T.: *Synthesis-S* 1331 (1997)
24. Roscha, WR.: *Int. J. Quant.* 65, 643 (1997)
25. Roscha, WR.: *Organometal* 17, 1961 (1998)
26. Darocha, LL.: *J. Mol. Catal. A.* 132, 213 (1998)
27. Meessen, P.: *J. Organomet. Chem.* 551, 165 (1998)
28. Rische, T.: *Tetrahedron* 54, 2723 (1998)
29. Heinz, J. *Organomet. Chem.* 587, 258 (1999)
30. Csók, J. *Organomet. Chem.* 586, 79 (1999)
31. Rocha, WR. *J. Brazil Chem. Soc.* 11, 112 (2000)
32. Perch, NS. *J. Org. Chem.* 65, 3836 (2000)
33. Petocz, G. *Inorg. Chim. Acta* 303, 300 (2000)
34. Gusevskaya, EV. *J. Mol. Catal. A-Chem.* 152, 15 (2000)
35. Wasserscheid, P. *J. Mol. Catal. A-Chem.* 164, 61 (2000)
36. Dahlenburg, L. *Organomet. Chem.* 630, 221 (2001)
37. Bohnen, H. W.: *Adv. Catal.* 1 (2002)
38. Wasserscheid P, Waffenschmidt H: *Acs Symp. Series* 818, 373 (2002)
39. Rangits G, Petocz G, Berente Z, et al.: *Inorg. Chim. Acta* 353, 301 (2003)
40. Ren YL, Zhao WC, Lu SJ: *Prog. In Chem.* 16, 266 (2004)
41. Casey CP, Martins SC, Fagan MA: *J. Am. Chem. S.* 126, 5585 (2004)
42. Rocha WR: *J. Mol. Struc.-Theochem* 677, 133 (2004)
43. van der Vlugt JI, Paulusse JMJ.: *Eur. J. Inorg. Chem.* (21): 4193 (2004)
44. Pavlov VA: *USP KH* 73, 1269 (2004)
45. Rangits G, Berente Z, Kegl T, et al.: *J. Coord. Chem.* 58: 869 (2005)
46. van Duren R, Cornelissen LLJM.: *Helv. Chim. Acta* 89, 1547 (2006)
47. Pavlov VA.: *Tetrahedron* 64, 1147 (2008)

2008.08.05.

22. Amrani, Y., Lecomte, L., Sinou, D., Bakos, J., Tóth, I., Heil, B.: *Chiral Sulphonated Phosphines. Synthesis and Use as Ligands in Asymmetric Hydrogenation Using an Aqueous-Organic Two-phase Solvent Systems. Organometallics* 8, 542 (1989).

1. Andrews, MA.: *J. Org. Chem.* 54, 5257 (1989)
2. Paetzold, E.: *Z. Chem.* 29, 447 (1989)
3. Herrmann, WA.: *Angew. Chem.* 29, 391 (1990)
4. Casalnuo, A. L.: *J. Am. Chem. S.* 112, 4324 (1990)
5. Oppolzer, W.: *Tetrahedr. L.* 31, 4117 (1990)
6. Lecomte, L.: *J. Chromatogr.* 514, 91 (1990)
7. Horváth, IT.: *Catal. Lett.* 6, 43 (1990)
8. Gaudin, JM.: *Tetrahedr. L.* 31, 5749 (1990)
9. Lecomte, L.: *Phosphor. S.* 53, 239 (1990)
10. Selke, R.: *J. Mol. Catal.* 63, 319 (1990)
11. Markó, L.: *J. Orgmet. Chem.* 404, 325 (1991)
12. Safi, M.: *Tetrahedron L.* 32, 2025 (1991)
13. Larpent, C.: *Syn. Comm.* 21, 495 (1991)
14. Laghmari, M.: *J. Mol. Catal.* 66, L15 (1991)
15. Avey, A.: *Organometal* 10, 3607 (1991)
16. Renaud, E.: *J. Orgmet. Chem.* 419, 403 (1991)
17. Becalski, AG.: *Inorg. Chem.* 30, 5002 (1991)
18. Oehme, G.: *J. Mol. Catal.* 71, L1 (1992)
19. Lensink, C., *Organometal.* 3, 235 (1992)
20. Darensbourg, DJ.: *Organomet.* 11, 1990 (1992)
21. Bartik, T.: *Inorg. Chem.* 31, 2667 (1992)
22. Herrmann, WA.: *J. Mol. Catal.* 73, 191 (1991)
23. Ellis, J. W.: *Inorg. Chem.* 31, 3026 (1992)
24. Ganguly, S.: *Inorg. Chem.* 31, 3500 (1992)
25. Mitchell, TN.: *J. Orgmet. Chem.* 436, 43 (1992)

26. Laghmari, M.: *J. Orgmet. Chem.* 438, 213 (1992)
27. Avey, A.: *Inorg. Chem.* 32, 233 (1993)
28. Avey, A.: *Organometal.* 11, 3856 (1992)
29. Lensink, C.: *Tetrahedr.-A.* 4, 215 (1993)
30. Pizzotti, M.: *J. Organomet. Chem.* 448, 205 (1993)
31. Dunina, VV.: *Zh. Org. Kh.* 28, 1929 (1992)
32. Jerome, KS.: *Organometal.* 12, 2991 (1993)
33. Wan, KT.: *J. Chem. Soc. Chem. Com.* 1262 (1993)
34. Bényei, A.: *J. Mol. Catal.* 84, 157 (1993)
35. Kalck, P.: *Adv. Orgmet. Chem.* 34, 219 (1992)
36. Takaya, H.: *J. Syn. Org. J.* 51, 1013 (1993)
37. Herrmann, WA.: *Angew. Chem. Int. Edit. E* 32, 1524 (1993)
38. Wan, KT.: *Tetrahedron. A.* 4, 2461 (1993)
39. Lopez, LL.: *Organometal.* 12, 4764 (1993)
40. Darensbourg, D. J.: *Inorg. Chem.* 33, 175 (1993)
41. Bartik, T.: *Inorg. Chem.* 33, 175 (1994)
42. Brunet, J. J.: *Phosphor. Su* 85, 207 (1993)
43. Blart, E.: *Tetrahedron*, 50, 505 (1994)
44. Wan, K. T.: *J. Catal.* 148, 1 (1994)
45. Herd, D.: *J. Orgmet. Chem.* 475, 99 (1994)
46. Pruchnik, FP.: *Pol. J. Chem.* 69, 5 (1995)
48. Darensbourg, D. J.: *J. Orgmet. Chem.* 488, 99 (1995)
49. Herring, AH.: *J. Inorg. Chem.* 34, 1100 (1995)
50. Horváth, IT.: *Aqueous Orgmet. Chem. and Catal.* 12 (1995)
51. Horváth, IT.: *Aqueous Orgmet. Chem. and Catal.* 78 (1995)
52. Fremy, G.: *J. Mol. Catal.* 505, 11 (1995)
53. Ding, H.: *Angew. Ch.* 34, 1465 (1995)
54. Fremy, G.: *J. Orgmet. Ch.* 505, 11 (1995)
55. Akutagaww, S.: *Appl. Catal. A.* 128, 171 (1995)
56. Laventi, L.: *J. Orgmet. Ch.* 509, 9 (1996)
57. Ravindov, V.: *Inorg. Chim.* 240 (1996)
58. Schut, DM.: *New. J. Ch.* 20, 113 (1996)
59. Joó, F.: *J. Organomet. Chem.* 512, 45 (1996)
60. Bitterer, R.: *Inorg. Chem.* 35, 4103 (1996)
61. Malstro, T.: *Chem. Commun.* 1135 (1996)
62. Sablong, R.: *Tetrahedr. A.* 7, 3059 (1996)
63. Gryzbek, R.: *React. Kin. C.* 58, 315 (1996)
64. Cornils, B.: *J. Mol. Catal. A.* 116, 27 (1997)
65. Lensink, C.: *J. Mol. Catal. A.* 116, 199 (1997)
66. Trinkhaus, S.: *Tetrahedron Lett.* 38, 807 (1997)
67. Darensbourg, D. J.: *Inorg. Chem.* 36, 4218 (1997)
68. Driver, MS.: *J. Am. Chem. S.* 119, 8232 (1997)
69. El-Quisairi: *J. Org. Chem.* 63, 2790 (1998)
70. Driver, MS.: *Organometal* 17, 1134 (1998)
71. Driessen, NB.: *Adv. Catal.* 42, 473 (1998)
72. Elqisair, A.: *J. Org. Chem.* 63, 2790 (1998)
73. Joó, F.: *Inorg. Synth.* 32, 1 (1998)
74. Trinkhaus, S.: *J. Mol. Catal. A.* 144, 15 (1999)
75. Malström, T.: *J. Chem. Soc., Dalton Trans.*, 2871 (1999)
76. Hanson, *Coord. Chem. Rev.* 186, 795 (1999)
77. Penicaud, *Eur. J. Org. Chem.* 1745 (1999)
78. Pruchnik, *Inorg. Chim. Acta* 293, 110 (1999)
79. Miquelserrano, *J. Mol. Catal. A: Chem.* 143, 49 (1999)
80. Malström, *J. Mol. Catal. A: Chem.* 139, 259 (1999)
81. Cornils, *J. Mol. Catal. A: Chem.* 143, 1 (1999)
82. Yonehara, *J. Org. Chem.* 64, 5593 (1999)
83. Kobayashi, *Chem. Rev.* 99, 1069 (1999)
84. Sinou, *D. Top. Current Chem.* 206, 41 (1999)
85. Ogo, *S. Organometallics* 18, 5470 (1999)
86. Yonehara, K. *J. Org. Chem.* 64, 9381 (1999)
87. Martorell, A. *Inorg. Chem. Commun.* 3, 132 (2000)

88. Malström, J. *Mol. Catal. A: Chem.* 157, 79 (2000)
89. Tanchoux, N. *Eur. J. Chem.* 1495 (2000)
90. Jamis, CA.: *J. Organomet. Chem.* 603, 50 (2000)
91. El-Qisairi, A.: *J. Organomet. Chem.* 603, 50 (2000)
92. Hashizume, T.: *J. Org. Chem.* 65, 505197 (2000)
93. Fan, QH.: *J. Mol. Catal. A: Chem.* 159, 37 (2000)
94. de Bellefon, C. *Angew. Chem. Int Edit.* 39, 3442 (2000)
95. Shen, JY.: *Phosphorus and Sulfur*, 165, 33 (2000)
96. Makihara, N.: *Organometallics* 20, 497 (2001)
97. Verspui, G.: *J. Organomet. Chem.* 621, 337 (2001)
98. Francisco, LW.: *Organometallics* 20, 4237 (2001)
99. Joó, F.: *Aqueous Organomet. Chem. Bk.* (2001)
100. Sinou, D.: *Adv. Synth. Catal.* 344, 221 (2002)
101. Lucey, D.: *W.: Organometallics* 21, 2481 (2002)
102. de Bellefon C, Pestre N.: *Adv. Synth. Catal.* 345, 190 (2003)
103. Aghmiz A, Orejon A.: *J. Mol. Catal. A: Chem.* 195, 113 (2003)
104. MacLeod S, Rosso RJ: *Adv. Synth. Catal.* 345, 568 (2003)
105. Gimenez-Pedros M, Aghmiz A.: *J. Mol. Catal. A: Chem.* 200, 157 (2003)
106. Pinault N, Bruce DW: *Coord. Chem. Rev.* 241, 1 (2003)
107. Parmar DU, Bhatt SD.: *J. Mol. Catal. A: Chem.* 202, 9 (2003)
108. Wender PA, Love JA, Williams TJ: *Synlett* (9): 1295 Sp. Iss. SI (2003)
109. Tolstikov AG, Khlebnikova TB: *USP KH* 72, 902 (2003)
110. Parmar DU, Bajaj HC.: *J. Mol. Catal. A: Chem.* 211, 83 (2004)
111. Herseczki Z, Gergely I.: *Tetrahedron: Asym.* 15, 1673 (2004)
112. Blanc C, Agbossou-Niedercorn F.: *Tetrahedron: Asym.* 15, 2159 (2004)
113. Tungler A, Sipos E, Hadac V: *ARKIVOC* : 223 (2004)
114. Ruiz J, Ceroni M, Vivanco M, et al.: *Chem. Commun.* (38): 4860 (2005)
115. Redon S, Piva O: *Tetrahedr. L.* 47, 733 (2006)
116. Yeo WC, Vittal JJ, Koh LL, et al.: *Organomet.* 25, 1259 (2006)
117. Wu JS, Wang F, Ma YP, et al.: *Chem. Commun.* (16): 1766 (2006)
118. Mosquera MEG, Ruiz J, Garcia G, et al.: *Chem. Eur. J.* 12, 7706 (2006)
119. Dodds DL, Haddow MF.: *Organomet.* 25, 5937 (2006)
120. Ahlquist M, Gustafsson M.: *Inorg. Chim. Acta* 360, 1621 (2007)
121. Dabbawala AA, Parmar DU.: *J. Mol. Catal. Chem.* 282, 99 (2008)

2008.08.05.

23. Lecomte, L., Sinou, D., Bakos, J., Tóth, I., Heil, B.:
Chiral Sulphonated Phosphines. II. Influence of Water on the Enantioselectivity in the Reduction of Dehydro-aminoacids.
J. Organomet. Chem. 370, 227 (1989).

1. Hamdan, M.: *Org. Mass. S.* 25, 540 (1990)
2. Barton, M.: *J. Coord. Chem.* 24, 43 (1991)
3. Laghmari, M.: *J. Mol. Catal.* 66, L15 (1991)
4. Markó, L.: *J. Orgmet. Chem.* 404, 325 (1991)
5. Selke, R.: *J. Mol. Catal.* 63, 319 (1990)
6. Oehme, G.: *J. Mol. Catal.* 71, L1 (1992)
7. Cativiel, C.: *J. Phys. Org.* 5, 230 (1992)
8. Ellis, JW.: *Inorg. Chem.* 31, 3026 (1992)
9. Laghmari, M.: *J. Orgmet. Chem.* 438, 213 (1992)
10. Dunina, VV.: *Zh. Org. Kh.* 28, 1929 (1992)
11. Herrmann, WA.: *Angew. Chem. Int. Edit. Engl.* 32, 1524 (1993)
12. Kalck, P.: *Adv. in Orgmet. Chem.* 34, 219 (1992)
13. Wan, KT.: *J. Chem. Soc., Chem. Comm.* 1262 (1993)
14. Joó, F.: *J. Chem. Soc., Chem. Comm.* 1602 (1993)
15. Kalck, P.: *J. Organomet. Chem.* 177 (1993)
16. Lubineau, A.: *Synthesis-S.* 741 (1994)
17. Monteil, F.: *J. Orgmet. Chem.* 480, 177 (1994)
18. Pruchnik, F. P.: *Pol. J. Chem.* 69, 5 (1995)
19. Horváth, IT.: *Aqueous Orgmet. Chem. and Catal.* 32 (1995)

20. Horváth, IT.: Aqueous Orgmet. Chem. and Catal. 229 (1995)
21. Horváth, IT.: Aqueous Orgmet. Chem. and Catal. 256 (1995)
22. Joó, F.: J. Organomet. Chem. 512, 45 (1996)
23. Trinkhaus, S.: J. Mol. Catal. A. 144, 15 (1999)
24. Malström, T.: J. Chem. Soc., Dalton Trans., 2871 (1999)
25. Pruchnik, Inorg. Chim. Acta 293, 110 (1999)
26. Gelpke, Chem. Eur. J. 5, 2472 (1999)
27. Malmstrom, T.: J. Mol. Catal. A: Chem. 139, 259 (1999)
28. Kalck, P.: Coord. Chem. Rev. 192, 1185 (1999)
29. Yonehara, K.: J. Org. Chem. 64, 9381 (1999)
30. Shin, S.: Org. Lett. 1, 1229 (1999)
31. Malmstrom, T.: J. Mol. Catal. A: Chem. 157, 79 (2000)
32. Hashizume, T.: J. Org. Chem. 65, 5197 (2000)
33. Dwars, T.: Phosphorus Sulfur 158, 209 (2000)
34. Shen, JY.: Phosphorus Sulfur 165, 33 (2001)
35. Yan, YY.: J. Org. Chem. 66, 3277 (2001)
36. Joó, F.: Aqueous Organomet. Chem. Bk. (2001)
37. Sinou, D.: Adv. Synth. Catal. 344, 221 (2002)
38. Pinault N, Bruce DW: Coordin. Chem. Rev. 241, 1 (2003)
39. RajanBabu TV, Yan YY, Shin S: Current Org. Chem. 7, 1759 (2003)
40. Xiong W, Yang ZF, Yuan ML, et al.: Chinese J. Cat. 26, 1093 (2005)
41. Ahlquist M, Gustafsson M.: Inorg. Chim. Acta 360, 1621 (2007)

2008.08.05.

24. Kollár, L., Bakos, J., Tóth, I., Heil, B.:
Asymmetric Hydroformylation with Pt-Phosphine-SnCl₂ and Pt-Bisphosphine-CuCl₂(or CuCl) Catalytic Systems.
J. Organomet. Chem. 370, 257 (1989).

1. Suzuki, T.: J. Chem. Soc., Chem. Comm. 1593 (1991)
2. Consiglio, G.: J. Mol. Catal. 66, 1 (1991)
3. Consiglio, G.: Organomet. 10, 2046 (1991)
4. Botteghi, C.: Chirality 3, 355 (1991)
5. Consiglio, G.: Tetrahedr. A 1, 417 (1990)
6. Paganell, S.: J. Orgmet. Chem. 397, 119 (1991)
7. Markó, L.: J. Orgmet. Chem. 404, 325 (1991) R
8. Suzuki, T.: J. Chem. Soc. Chem. 1593 (1991)
9. Saare, A.: Z. Naturfs. B 47, 247 (1992)
10. Delapisc, PR.: Catal. Lett. 14, 45 (1992)
11. Dunina, VV.: Zh. Org. Kh. 28, 2368 (1992) R
12. Brunner, H.: Bk (1993)
13. March, G.: Adv. Org. Chem., John Wiley, (1992)
14. Agbossou, F.: Chem. Rev. 95, 2485 (1995)
15. Gladioli, S.: J. Orgmet. Ch. 491, 91 (1995)
16. Masdeubulto, AM.: Tetrahedr. A. 6, 1885 (1995)
17. Bartik, T.: J. Mol. Catal. A. 98, 117 (1995)
18. Castellanos, A.: J. Orgmet. Chem. 539, 1 (1997)
19. ForniesC, S.: J. Orgmet. Ch. 530, 199 (1997)
20. Naili, S.: New J. Chem. 21, 919 (1997)
21. Perch, N. S.: J. Org. Chem. 65, 3836 (2000)
22. Gusevskaya, E. V.: J. Mol. Catal. A-Chem. 152, 15 (2000)
23. Sturm, TJ.: Organomet. Chem. 595, 93 (2000)
24. Janosi, L.: Inorg. Chim. Acta. 316, 135 (2001)
25. Garcia-Seijo, M. I.: Polyhedron 20, 855 (2001)
26. Xie BH, Zhang YH.: Prog. Chem. 13, 43 (2001)
27. Foca, CM.: J. Mol. Catal. A-Chem. 185, 17 (2002)
28. Fernandez D, Garcia-Seijo MI, Kegl T.: Inorg. Chem. 41, 4435 (2002)
29. Petocz G, Berente Z, Kegl T, et al.: J. Orgmet. Chem. 689, 1188 (2004)
30. Ren YL, Zhao WC, Lu SJ: Progress In Chem. 16, 266 (2004)
31. Rocha WR: J. Mol. Structure-Theochem. 677, 133 (2004)

32. van der Vlugt JI, van Duren R.: *Organometallics* 24, 5377 (2005)
33. Deng CX, Ou GN, She JR, et al.: *J. Mol. Catal. A: Chem.* 270, 76 (2007)
34. Martincova J, Dostal L.: *Organomet.* 26, 4102 (2007)

2008.08.05.

25. Bakos, J., Tóth, I., Heil, B., Szalontai, G., Párkányi, L., Fülöp, V.:
Catalytic and Structural Studies of Rh(I) Complexes of (-)-(2S,4S)-2,4-Bis(di-phenylphosphino)pentane. Asymmetric Hydrogenation of Acetophenonebenzyl-imine and Acetophenone.
J. Organomet. Chem., 370, 263 (1989).

1. Spindler, F.: *Angew. Chem.* 29, 558 (1990)
2. Cullen, W. R.: *J. Mol. Catal.* 62, 243 (1990)
3. Chan, YNC.: *J. Am. Chem. Soc.* 112, 9400 (1990)
4. Inoguchi, K.: *Syn. Lett.* 49 (1991)
5. Markó, L.: *J. Orgmet. Chem.* 404, 325 (1991)
6. Spindler, F.: *Chirality* 3, 370 (1991)
7. Becalski, A. G.: *Inorg. Chem.* 30, 5002 (1991)
8. Lensink, C.: *Tetrahedron Asymmetry* 9, 235 (1992)
9. Kollár, L.: *J. Orgmet. Chem.* 393, 153 (1990)
10. Kollár, L.: *J. Mol. Catal.* 67, 191 (1991)
11. Krasik, P.: *Tetrahedr. A.* 3, 1283 (1992)
12. Duthaller, RO.: *Chem. Rev.* 92, 87 (1992)
13. Inoguchi, K.: *Chem. Pharm.* 40, 2921 (1992)
14. Bolm, C.: *Angew. Chem.* 105, 245 (1993)
15. Halg, W. J.: *Helv. Chim. A.* 76, 788 (1993)
16. Lensink, C.: *Tetrahedr.-A.* 4, 215 (1993)
17. Zhang, XY.: *J. Am. Chem. Soc.* 115, 3318 (1993)
18. Dunina, VV.: *Zh. Org. Kh.* 28, 1929 (1992)
19. Brunner, H.: *Bk.* (1993)
20. Takaya, H.: *J. Syn. Org. J.* 51, 1013 (1993)
21. Fogg, DE.: *Inorg. Chim.* 222, 85 (1994)
22. Zhang, XY.: *Tetrahedr. A.* 5, 1179 (1994)
23. Farkas, E.: *Organometal.* 15, 1345 (1996)
24. Blaser, HU.: *J. Mol. Cat. A.* 107, 85 (1996)
25. Buriak, JM.: *Organometal.* 15, 5161 (1996)
26. Hoveyda, AH.: *Angew. Chem.* 35, 1263 (1996)
27. Sablong, R.: *Tetrahedr. A.* 7, 3059 (1996)
28. Ohkuma, T.: *J. Syn. Org. J.* 54, 553 (1996)
29. Gouygou, M.: *Organometal* 16, 1008 (1997)
30. Hashiguchi, S.: *J. Syn. Org. J.* 55, 99 (1997)
31. Yamada, I.: *J. Organomet. Chem.* 539, 115 (1997)
32. Driver, MS.: *J. Am. Chem. Soc.* 119, 8232 (1997)
33. James, BR.: *Catal. Today* 37, 209 (1997)
34. Jacobi, J.: *Organomet. Chem.* 571, 231 (1998)
35. Cahill, *Tetrahedron: Asymmetry* 9, 4307 (1998)
36. Kobayashi, *Chem. Rev.* 99, 1069 (1999)
37. Tani, *J. Synth. Org. Chem. Jpn.* 57, 656 (1999)
38. Karas, *Eur. J. Inorg. Chem.* 405 (1999)
39. Freixa, *J. Chem. Soc. Dalton Trans.* 3245 (1999)
40. Valentini, *J. Organomet. Chem.* 587, 244 (1999)
41. Bianchini, *Macromolecules* 32, 4183 (1999)
42. Bianchini, *New J. Chem.* 23, 929 (1999)
43. McGuire, *Tetrahedron. Lett.* 40, 3293 (1999)
44. Burk, *Organometallics*, 19, 250 (2000)
45. McGuire, MA.: *Tetrahedron Lett* 40, 3293 (1999)
46. Valentini, H.: *J. Organomet. Chem.* 587, 244 (1999)
47. Buriak, JM.: *Chem-Eur. J.* 6, 139 (2000)
48. Pregosin, P. S.: *Enantiomer* 4, (6) 529 (1999)
49. Martorell, A.: *Inorg. Chem. Commun.* 3, 132 (2000)

50. Bianchini, C.: Chem. Commun. 777 (2000)
51. Stampfl, T.: Inorg. Chem. Commun. 3, 387 (2000)
52. Li W, Zhang XM J. Org. Chem. 65, 5871 (2000)
53. Kempe, R, Z Krist-New Cryst. St. 216, 153 (2001)
54. Bianchini, C.: J. Chem. Soc. Dalton 690 (2001)
55. Gonsalves AMDR, J. Mol. Catal. A-Chem. 168, 53 (2001)
56. Drexler, HJ.: J. Organomet. Chem. 621, 89 (2001)
57. Bianchini, C.: J. Organomet. Chem. 621, 26 (2001)
58. Dieguez, M.: J. Organomet. Chem. 629, 77 (2001)
59. Bianchini, C. Helv. Chim. Acta 84, 2895 (2001)
60. Segarra, AM.: Chem. Eur. J. 9, 191 (2002)
61. Frick, A.: Eur. J. Inorg. Chem. 12, 3129 (2002)
62. Yue, TY.: J. Am. Chem. Soc. 124, 13692 (2002)
63. Li, WG, Waldkirch JP.: J. Org. Chem. 67, 7618 (2002)
64. Stampfl, T.: Inorg. Chem. Commun. 5, 490 (2002)
65. Bianchini, C.: Coordin. Chem. Rev. 225, 35 (2002)
66. Bianchini, C.: Organometallics 21, 16 (2002)
67. Segarra AM, Guerrero R, Claver C, et al.: Chem. Eur. J. 9, 191 (2003)
68. Tang WJ, Zhang XM.: Chem. Rev. 103, 3029 (2003)
69. Bianchini C, Gonsalvi L.: J. C. S. Dalton (20): 3869 (2003)
70. Mikami K, Yusa Y, Hatano M, et al.: Chem. Commun. (1): 98 (2004)
71. Mikami K, Yusa Y, Hatano M, et al.: Tetrahedron 60, 4475 (2004)
72. Drexler HJ, Zhang SL.: Tetrahedron: Asymmetry 15, 2139 (2004)
73. Maitlis PM, Haynes A, James BR, et al.: J. C. S. Dalton (21): 3409 (2004)
74. Sablong R, van der Vlugt JI.: Adv. Synth. Catal. 347, 633 (2005)
75. Tsuruta H, Imamoto T, Yamaguchi K, et al.: Tetrahedr. L. 46, 2879 (2005)
76. Bianchini C, Oberhauser W.: Organometallics 24, 3692 (2005)
77. Dubrovina NV, Tararov VI.: Tetrahedron: Asymmetry 16, 3640 (2005)
78. Zhao Y, Schmalle HW, Fox T, et al.: J. C. S. Dalton (1): 73 (2006)
79. Qiu LQ, Kwong FY, Wu J, et al.: J. Am. Chem. S. 128, 5955 (2006)
80. Janosi L, Kollar L, Macchi P, et al.: J. Orgmet. Chem. 691, 2846 (2006)
81. Bianchini C, Bruggeller P.: J. C. S. Dalton (24): 2964 (2006)
82. Liu SF, Berry N, Thomson N, et al.: J. Org. Chem. 71, 7467 (2006)
83. Agbossou-Niederborn F, Paul JF.: Eur. J. Inorg. Chem. (21): 4338 (2006)
84. Le Roux E, Malacea R, Manoury E.: Adv. Synth. Catal. 349, 309 (2007)
85. Rubio M, Vargas S, Suarez A, et al.: Chem. Eur. J. 13, 1821 (2007)
86. Carmichael D, Goldet G.: Chem.-A Eur. J. 13, 5492 (2007)

2008.08.05.

26. Bakos, J., Tóth, I., Szalontai, G., Fülöp, V., Heil, B.:
Synthesis and Stereochemical Studies of Rhodium Complexes with (-)-(2S,4S)-2,4-Bis(diphenylphosphino)pentane.
J. Organomet. Chem., 371, 101 (1989).

1. Yunder, DN.: Instr. Exp. 32, 256 (1989)
2. Jendrall, H.: Synthesis-S 494 (1994)
3. Sohár, P.: Magyar Kém. Foly. 100, 469 (1994)
4. Farkas, E.: Organometal. 15, 1345 (1996)
5. Burk, Organometallics, 19, 250 (2000)
6. Bianchini C, Bruggeller P.: Dalton Transact. (24): 2964 (2006)

2008.08.05.

27. Szalontai, G., Sándor, P., Bakos, J.:
Liquid State Stereochemistry of Rh(I)Bisphosphine-diene Complexes. Correlation of Conformational Chirality of the Complexes and the Structural Chirality of the Ligand.
Bul. Magn. Reson., 11(3-4), 374 (1989).

28. Kollár, L., Bakos, J., Heil, B., Sándor, P., Szalontai, G.:

Hydroformylation of Chiral Terpenes with $\text{PtCl}(\text{SnCl}_3)(\text{bisphosphine})$ as Catalyst.
J. Organometal. Chem., 385, 147 (1990).

1. Markó, L.: *J. Organomet. Chem.* 432, 1 (1992)
2. Polo, A.: *Organometal.* 11, 3525 (1992)
3. Dossanto, EN.: *J. Mol. Catal.* 83, 51 (1993)
4. Dunina W.: *Zh. Org. Kh.* 28, 2368 (1992)
5. Grayson, DH.: *Nat. Prod. R.* 11, 225 (1994)
6. Dias AD, Augusti R.: *Tetrahedr. Lett.* 38, 41 (1997)
7. Sirol S, Kalck P.: *New J. Chem.* 21, 1129 (1997)
8. Kranemann CL, Eilbracht P.: *Synth. Stuttg.* 71 (1998)
9. Kalck P.: *Coord. Chem. Rev.* 192, 1185 (1999)
10. Teles WM.: *Transit. Met. Chem.* 24, 321 (1999)
10. Gusevskaya V.: *J. Mol. Catal. A-Chem.* 152, 15 (2000)
11. Benedek C.: *J. Mol. Catal. A-Chem.* 165, 15 (2001)
12. Bohnen HW.: *Adv. Catal.* 47, 1 (2002)
13. Gusevskaya EV.: *Quimica Nova* 26, 242 (2003)
14. Swift KAD.: *Topics In Cat.* 27, 143 (2004)
15. Casey CP, Martins SC, Fagan MA.: *J. Am. Chem. S.* 126, 5585 (2004)
16. van der Vlugt JI, van Duren R.: *Organometallics* 24 5377 (2005)

2008.08.05.

29. Bakos, J., Eifert, Gy., Bihari, F., Nagy, M.:
HC-252 A New Selective Herbicide for the Post-emergence Control of Dicotyledonous Weeds.
Brighton Crop Protection Conference-Weeds-1991, Brighton, Vol. 1., 83. (1991), The Lavenham
Press Lim., Lavernham, Suffolk.

1. Kőműves, T.: *ACS Symp. S.* 559, 177 (1994) R
2. Anderson, R. J.: *ACS Symp. S.* 559, 18 (1994) R

30. Szalontai, G., Sándor, P., Bakos, J.:
Liquid-phase Stereochemistry of Cationic (Rh-bisphosphine-diene)⁺ and Neutral (Rh-
bisphosphine-diene-Cl) Complexes. ¹H, ³¹P and ¹³C NMR and Molecular Mechanics Study.
Magn. Res. Chem., 29, 449 (1991).

1. Haelg, WJ.: *Helv. Chim. A.* 76, 900 (1993)
2. Berger, H.: *Helv. Chim. A.* 76, 788 (1993)
3. Haelg, WJ.: *Helv. Chim. A.* 76, 1520 (1993)
4. Brunet, JJ.: *J. Organomet. Chem.* 463, 205 (1993)
5. Borner, A.: *J. Organomet. Chem.* 490, 213 (1995)
6. Jiang, QZ.: *J. Organomet. Chem.* 488, 233 (1994)
7. Carmona, A.: *J. Organomet. Chem.* 492, 11 (1995)
8. Michalik, M.: *Magn. Res. Chem.* 33, 385 (1995)
9. Corma, A.: *J. Organomet. Chem.* 544, 147 (1997)

31. Bakos, J., Heil, B., Orosz, Á., Laghmari, M., Lhoste, P., Sinou, D.:
Rhodium(I) Sulphonated Phosphines Complexes as Catalysts for the Asymmetric
Hydrogenation of Imines.
J. Chem. Soc. Chem. Commun., 1684 (1991).

1. Burk, MJ.: *J. Am. Chem. Soc.* 114, 6266 (1992)
2. Willoughby, CA.: *J. Am. Chem. Soc.* 114, 7562 (1992)
3. Kraakman, M.: *J. Inorg. Chim.* 202, 197 (1992)
4. Zassinovich, G.: *Chem. Rev* 92, 1051 (1992)
5. Lensink, C.: *Tetrahedron A.* 3, 235 (1992)
6. Bolm, C.: *Angew. Chem.* 105, 245 (1993)
7. Forster, D.: *ACS SYMS* 517, 22 (1993)
8. Ungváry, F.: *J. Orgmet. Chem.* 457, 273 (1993)
9. Hegedus, LS.: *J. Orgmet. Chem.* 457, 167 (1993)
10. Dunina, VV.: *Zh. Org. Kh.* 28, 1929 (1992)

11. Nyburg, SC.: Polyhedron 12, 1119 (1993)
12. Herrmann, WA.: Angew. Chem. Int. Ed. Engl. 32, 1524 (1993)
13. Willoughby, CA.: J. Org. Chem. 114, 7562 (1993)
14. Knight, DA.: Organometal. 12, 4523 (1993)
15. Wan, KT.: Tetrahedron. A. 4, 2461 (1993)
16. Kramer, R.: Chem. Ber. 126, 2421 (1993)
17. Sheldon, RA.: Chirotechn. ,Marcel Dekker Inc. (1993) Bk.
18. Brunet, JJ.: Phosphorus SU 85, 207 (1993)
19. Burk, MJ.: Tetrahedron 50, 4399 (1994) R
20. Yamamoto, Y.: J. Am. Chem. Soc. 116, 3161 (1994)
21. Jendrall, H.: Tetrahedr. A. 5, 1297 (1994)
22. Morimoto, T.: Chem. Pharm. 42, 1951 (1994)
23. Willoughby, C. A.: J. Am. Chem. Soc. 116, 8952 (1994)
24. Morimoto, T.: Tetrahedr. A. 6, 75 (1995) N
25. Willoughby, C. A.: J. Am. Chem. Soc. 116, 1703 (1994)
26. Morimoto, T.: Tetrahedr. A. 6, 2661 (1995)
27. Fremy, G.: J. Mol. Catal. 505,11 (1995)
28. Fremy, G.: J. Orgmet. Ch., 305, 11 (1995)
29. Morimoto, T.: Synlett., 748 (1995)
30. Tani, k.: Chem. Lett., 955 (1995)
31. Zhou, Z.X.: Organometal., 14,4209 (1995)
32. Sakai, T.: Tetrahedron, 52, 233 (1996)
33. Brunel, JM.: Synlett., 177 (1996)
34. Buriak, JM.: Organometal. 15, 3161 (1996)
35. Hovieda, AH.: Angew. Chem. 35, 1263 (1996)
36. Sablong, R.: Tetrahedr. L. 37, 4937 (1996)
37. Burk, MJ.: J. Am. Chem. Soc. 118, 5142 (1996)
38. Eumatsu, J. Am. Chem. Soc. 118, 4916 (1996)
39. Sablong, R.: Tetrahedr. A. 7, 3059 (1996)
40. Stark, GA.: Inorg. Chem. 35, 5509 (1996)
41. Fremy, G.: J. Orgmet. Chem. 505, 11 (1996)
42. Cornils, B.: J. Syn. Org. J. 55, 99 (1997)
43. Lensink, C.: J. Mol. Catal. A. 116, 199 (1997)
44. Trinkhaus, S.: Tetrahedron L. 38, 807 (1997)
45. Obora, Y.: J. Am. Chem. Soc. 119, 3745 (1997)
46. Driver, M. S.: J. Am. Chem. Soc. 119, 8232 (1997)
47. James, B. R.: Catal Today 37, 209 (1997)
48. Amin, SR.: tetrahedron L. 38, 7487 (1997)
49. El-Quisairi: J. Org. Chem. 63, 2790 (1998)
50. Driver, MS.: Organometal 17, 1134 (1998)
51. Elqisair, A.: J. Org. Chem. 63, 2790 (1998)
52. Jandrassi, E.: Inorg. Chem. 272, 153 (1998)
53. Hoveyda, AH.: Curr. Org. Chem. 2, 489 (1998)
54. El-Qisairi, A.: J. Org. Chem. 63, 2790 (1998)
55. Tani,: J. Synth. Og. Chem. Jpn. 57, 656 (1999)
56. Margalef,: Catal. Lett. 60, 121 (1999)
57. Kobayashi,: Chem. Rev. 99, 1069 (1999)
58. Kainz, J. Am. Chem. Soc. 121, 6421 (1999)
59. Gelpke,: Eur. J. Chem. A 5, 2472 (1999)
60. Yonehara, J.: Org. Chem. 64, 5593 (1999)
61. Tararov, Tetrahedron: A. 10, 4009, (1999)
62. Yonehara,: J. Org. Chem. 64, 9381 (1999)
63. Sinou, D.: Top. Curr. Chem. 206, 41 (1999)
64. Baar, CR.: Organometallics 19, 4150 (2000))
65. Hashizume, T.: J.Org. Chem. 65, 5197 (2000)
66. El-Qisairi, J.Organomet. Chem. 603, 50 (2000)
67. Fache, F. Chem. Rev. 100, 2159 (2000)
68. Margalef-Catala, R. Tetrahedron: A 11, 1469 (2000)
69. Martorell, A. Inorg. Chem. Commun. 3, 132 (2000)
70. Claver, C.: J. Catal. 201, 70 (2001)
71. Quiao, Z.: Chinese J. Org. Chem. 21, 325 (2001)

72. Abe, H.: *Org. Lett.* 3, 313 (2001)
73. Baar, CR.: *Organometallics* 20, 408 (2001)
74. Francisco, LW. *Organomet.* 20, 4237 (2001)
75. Xiao, D. *Angew. Chem. Int. Edit.* 18, 3425 (2001)
76. Li XD, *Synt. Commun.* 31: (16) 2429 (2001)
77. Joó, F. *Aqueous Organomet. Chem. Bk.* (2001)
78. El-Qisairi, AK.: *J. Organomet. Chem.* 656, 168 (2002)
79. Tejel, C.: *Chem-Eur. J.* 8, 3128 (2002)
80. Sinou, D.: *Adv. Synth. Catal.* 344, 221 (2002)
81. Dwars, T.: *Adv. Synth. Catal.* 344, 239 (2002)
82. Lucey, DW.: *Organomet.* 21, 2481 (2002)
83. Jiang XB.: *Org. Lett.* 5, 1503 (2003)
84. Pinault N.: *Coordin. Chem. Rev.* 241, 1 (2003)
85. Tang WJ.: *Chem. Rev.* 103, 3029 (2003)
86. Santos LS.: *Tetrahedron: A* 14, 2515 (2003)
87. Kruger P.: *Eur. J. Inorg. Chem.* (3): 481 (2004)
88. Kundig EP.: *Helv. Chim. Acta* 87, 561 (2004)
89. Blanc C.: *Tetrahedron: A* 15, 2159 (2004)
90. Miecznikowski JR.: *Polyhedron* 23, 2857 (2004)
91. Ruiz J, Ceroni M.: *Chem. Com.* (38): 4860 (2005)
92. Zhao Y, Schmalle HW.: *J. C. S. Dalton* (1): 73 (2006)
93. Graves CR, Scheidt KA.: *Org. Lett.* 8, 1229 (2006)
94. Wu JS, Wang F.: *Chem. Commun.* (16): 1766 (2006)
95. Imamoto T, Iwadate N.: *Org. Lett.* 8, 2289 (2006)
96. Mei L, Xuan LX.: *Asian J. Chem.* 18, 2089 (2006)
97. Zhu SF, Xie JB.: *J. Am. Chem. S.* 128, 12886 (2006)
98. Mosquera MEG.: *Chem. Eur. J.* 12, 7706 (2006)

2008.08.05.

32. Kollár, L., Kégl, T., Bakos, J.,:
Platinum-catalysed Enantioselective Hydroformylation of Styrene. Platinum-diphosphine-tin(II)fluoride Catalytic System: a Novel Asymmetric Hydroformylation Catalyst.
J. Organometal. Chem., 453, 155 (1993). IF: 1.552 (1993)

1. *Platinum Metals Rew.*, 37, 229 (1993)
2. Naili, S.: *Organomet.* 14, 401 (1995)
3. Agbossou, F.: *Chem. Rev.* 95, 2485 (1995) R
4. Gladiali, S.: *J. Orgmet. Ch.* 491, 91 (1995)
5. Masdeubu, A. M.: *Tetrahedr. A.* 6, 1885 (1995) N
6. Ungvary, F.: *Coord. Chem. Rev.* 141, 371 (1995) R
7. Hanson, JR.: *Nat. Prod. R.* 12, 567 (1995)
8. Boganov, SE.: *Russ. Chem. B.* 45, 1061 (1996)
9. Castellanos, A.: *J. Orgmet. Chem.* 539, 1 91997)
10. Meessen P.: *J. Orgmet. Chem.* 551, 165 (1998)
11. Breit, B.: *Tetrahedron L.* 39, 1901 (1998)
12. Meessen, P.: *J. Orgmet. Chem.* 551, 165 (1998)
13. Pagenkopf, *Chem. Eur. J.* 5, 3437 (1999)
14. Dieguez, J. *Mol. Catal. A: Chem.* 143, 111 (1999)
15. Heins, J. *Organomet. Chem.* 587, 258 (1999)
16. Jiang, J. *Organomet. Chem.* 586, 70 (1999)
17. Fong, SWA. *Organometallics*, 19, 918 (2000)
18. Wasserscheid, P. *J. Mol. Catal. A-Chem.* 164, 61 (2000)
19. Dahlenburg, L. *Organomet. Chem.* 630, 221 (2001)
20. Permin, A.: *Inorg. Chem.* 41, 2451 (2002)
21. Wasserscheid P.: *ACS Symposium Series* 818: 373 (2002)
22. Casey CP, Martins SC, Fagan MA.: *J. Am. Chem. S.* 126, 5585 (2004)
23. van der Vlugt JI, Paulusse MJ.: *Eur. J. Inorg. Chem.* (21): 4193 (2004)
24. Rangits G, Berente Z, Kégl T, et al.: *J. Coord. Chem.* 58, 869 (2005)

2008.08.05.

33. Szalontai, G., Bakos, J., Aime, S., Gobetto, R.:
High Resolution NMR Studies of (Diphosphine)(Diene)Rhodium Complexes at the Solid State.
J. Organometal. Chem., 463, 223 (1993). IF: 1.552 (1993)
1. Sohár, P.: *Magy. Kém. FO.* 100, 469 (1994)
 2. Wilson, W. L.: *Inorg. Chem.* 35, 1486 (1996)
 3. Eichele K, Nachtigal C, Jung S, et al.: *Magn. Res. In Chem.* 42, 807 (2004)
 4. Foucault HM, Bryce DL, Fogg DE.: *Inorg. Chem.* 45, 10293 (2006)
- 2008.08.05.
34. Szalontai, G., Bakos, J., Aime, S., Gobetto, R.:
Solid State ³¹P and ¹³C CP/MAS Study of Ionic and Neutral Rh(I)-Bisphosphine-Diene Complexes.
Phosphorus, Sulfur and Silicon, 77, 261 (1993). IF: 0.363 (1993)
35. Szalontai, G., Bakos, J., Aime, S., Gobetto, R.:
Solid-State ³¹P CP/MAS NMR vs Solution Study of Bis(Tertiary Phosphines).
Solid State Nucl. Magn. Reson., 2, 245 (1993) IF: 2.143 (1993)
1. Sohár, P.: *Magy. Kém. Foly.* 100, 469 (1994)
 2. Liu, W.: *J. Chem. Soc. Dalton*, 3691 (1995)
 3. Eliel, EL.: *Heteroat. Chem.* 8, 509 (1997)
 4. Eichele, *Inorg. Chem.* 38, 639 (1999)
 5. Szalontai G, Besenyi G.: *Inorg. Chim. Acta* 357, 4413 (2004)
- 2008.08.05.
36. Bakos, J., Karaivanov, R., Sinou, D., Laghmari, M.:
Chiral Sulfonated Phosphines. IX. Role of the Water in the Asymmetric Hydrogenation of Dehydroaminoacids.
Organometallics 13, 2951 (1994) IF: 2.952 (1994)
1. Horváth, IT.: *Aqueous Orgmet. Chem. and Catal.* 229 (1995)
 2. Fremy, G.: *J. Mol. Catal.* 505, 11 (1995)
 3. Kovacs, I.: *J. Orgmet. Ch.* 502, 37 (1995)
 4. Joó, F.: *J. Orgmet. Chem.* 512, 45 (1996)
 5. Fremy, G.: *J. Orgmet. Chem.* 505, 11 (1996)
 6. Buhling, A.: *J. Mol. Cat. A.* 116, 297 (1997)
 7. Heller, D.: *Tetrahedron: A.* 8, 213 (1997)
 8. Toth, I.: *J. Organomet. Chem.* 540, 5 (1997)
 9. Murai, T.: *Organometal* 17, 926 (1998)
 10. Driessen, P.: *Adv. Catal.* 42, 473 (1998)
 11. Fremy, H.: *J. Mol. Cat. A.* 129, 35 (1998)
 12. Bricout, H.: *J. Organomet. Chem.* 553, 469 (1998)
 13. Malmstrom, T.: *J. Chem. Soc., Dalton Trans.*, 2871 (1999)
 14. Arzoumanian, *Compt. Rend. Acad. Sci. Ser. II Chim.* 2, 289 (1999)
 15. Papp, E. *React. Kinet. Catal. L.* 69, 23 (2000)
 16. Shen, JY.: *Phosphorus Sulfur* 165, 33 (2000)
 17. Kovacs, G.: *Cr. Acad. Sci. II C* 3, 601 (2000)
 18. Yan, YY.: *J. Org. Chem.* 66, 3277 (2001)
 19. Grassert, I.: *J. Organomet. Chem.* 621, 158 (2001)
 20. Joó, F.: *Aqueous Organomet. Chem. Bk.* (2001)
 21. Kitamura, M.: *J. Am. Chem. Soc.* 6649 (2002)
 22. Sinou, D.: *Adv. Synth. Catal.* 344, 221 (2002)
 23. Dwars, T.: *Adv. Synth. Catal.* 344, 239 (2002)
 24. Tilloy, S.: *Green Chem.* 4, 188 (2002)
 25. Kovacs G, Nadasdi L, Laurenczy G, et al.: *Green Chem.* 5, 213 (2003)
 26. RajanBabu TV, Yan YY, Shin S.: *Current Org. Chem.* 7, 1759 (2003)
 27. Tsukamoto M, Kitamura M.: *J. Synt. Org. Chem. Japan* 63, 899 (2005)
 28. Andrieu J, Camus JM, Balan C, et al.: *Eur. J. Inorg. Chem.* (1): 62 (2006)

29. Yoshimura M, Ishibashi Y.: *Tetrahedron* 63, 11399 (2007)
30. Kurita T, Aoki F, Mizumoto T.: *Chem. Eur. J.* 14, 3371 (2008)

2008.08.05.

37. Bakos, J., Heil, B., Kollár, L., Tőrös, Sz.:
Ródium és platinakomplexek homogénkatalitikus alkalmazásai, aszimmetrikus szintézisek.
Magyar Kém. Folyóirat 100, 394 (1994) IF: 0.227 (1994)

1. Ungváry, F.: *Coord. Chem. Rev.* 160, 129 (1997)
2. Tunik SPL.: *J. C. S. Dalton* (12): 2457 (2003)

2008.08.05.

38. Ding, B. E. Hanson and J. Bakos:
Preparation of Surface Active Chiral Diphosphine and its Use in the Hydrogenation of
Prochiral Olefins.
Angew. Chem. 107, 1728 (1995). IF: 6.168 (1995)

1. Burgess, K.: *Chem. & Ind.* 1016 (1995)
2. Valls, E.: *Chem. Commun.* 771 (1996)
3. Baxley, G. T.: *J. Mol. Catal. A.* 116, 191 (1997)
4. Cornils, B.: *J. Mol. Catal. A.* 116, 27 (1997)
5. Joó, F.: *J. Mol. Catal. A.* 116, 3 (1997)
6. Beller, M.: *Angew. Chem.* 36, 772 (1997)
7. Okano, T.: *Chem. Lett.* 5 (1998)
8. Driessen, B.: *Adv. Catal.* 42, 473 (1998)
9. Joó, F.: *Inorg. Synth.* 32, 1 (1998)
10. Kalck, P.: *Catal. Today* 42, 431 (1998)
11. Oehme, G.: *Catal Today* 42, 459 (1998)
12. Trinkhaus, S.: *J. Mol. Catal. A.* 144, 15 (1999)
13. Sinou, Topics in *Curr. Chem.* 206, 41 (1999)
14. Yonehara, J. *Org. Chem.* 64, 5593 (1999)
15. Yonehara, J. *Org. Chem.* 64, 9381 (1999)
16. Bhanage, BM.: *Chem. Commun.* 1277 (1999)
17. Schreuder, M.: *J. Am. Chem. Soc.* 122, 1650 (2000)
18. Valls, E.: *Organometallics*, 18, 5475 (1999)
19. Fodor, K.: *Enantiomer* 4, 497 (1999)
20. Goedheijt, M. S.: *J. Am. Chem. Soc.* 122, 1650 (2000)
21. Chen, WP.: *Org. Lett.* 2, 2675 (2000)
22. Hashizume, T.: *J. Org. Chem.* 65, 5197 (2000)
23. Rabeyrin, C.: *Tetrahedron Lett.* 41, 7461 (2000)
24. Shen, JY.: *Phosphorus Sulfur* 165, 33 (2000)
25. Yan, YY.: *J. Org. Chem.* 66, 3277 (2001)
26. Joó, F.: *Aqueous Organomet. Chem. Bk.* (2001)
27. Sinou, D.: *Adv. Synth. Catal.* 344, 221 (2002)
28. Dwars, T.: *Adv. Synth. Catal.* 344, 239 (2002)
29. Mul, WP.: *Adv. Synth. Catal.* 344, 293 (2002)
30. Tilloy, S.: *Green Chem.* 4, 188 (2002)
31. Masumoto, S.: *Tetrahedron Lett.* 43, 2919 (2002)
32. Romagnoli, B.: *J. Mater. Chem.* 12, 767 (2002)
33. Davis, KJ.: *J. Mol. Catal. A-Chem.* 177, 173 (2002)
34. Gulyas H, Szollosy A, Hanson BE, et al. *Tetrahedron Lett.* 43, 2543 (2002)
35. Sinou D, Rabeyrin C, Nguéfacq C. *Adv. Synth. Catal.* 345, 357 (2003)
36. Solsona A, Suades J, Mathieu R. *J. Org. Chem.* 669, 172 (2003)
37. Gulyas H, Szollosy A, Szabo P, et al. *Eur. J. Org. Chem.* 2775 (2003)
38. RajanBabu TV, Yan YY, Shin S. *Current Org. Chem.* 7, 1759 (2003)
39. Ji HB, Wang LF. *Chinese J. Org. Chem.* 23, 513 (2003)
40. Rabeyrin C, Sinou D. *Tetrahedron: Asymmetry* 14, 3891 (2003)
41. Rabeyrin C, Sinou D. *J. Mol. Catal. A.* 215, 89 (2004)
42. Lu F, Liu J, Xu H. *Adv. Synth. Catal.* 348, 857 (2006)

2008.08.05.

39. Bakos, J.:

Chiral Sulfonated Phosphines in Enantioselective Catalysis.

NATO ASI Series Volume 3: Aqueous Organometallic Chemistry and Catalysis, Ed. I. T. Horváth, F. Joó, Kluwer Academic Publishers, Dordrecht, The Netherlands. P231-245 (1995)

1. Margalef, Catal. Lett. 60, 121 (1999)
2. B. Cornils, E.G. Kuntz: J. Organomet. Chem., 502, 177 (1995)
3. B. Cornils: Angew. Chem. Int. Edit. Engl., 34, 1575 (1995)
4. B. Cornils, E. Wiebus: CHEMTECH, 25, 33 (1995)
4. M. Beller, B. Cornils: J. Mol.Catal. A Chem., 104, 17 (1995)
5. G.T. Baxley, W.K. Miller: Inorg. Chem., 35, 6688 (1996)
6. T. Prinz, W. Keim: Angew. Chem. Int. Edit. Engl., 35, 1708 (1996)
7. B. Cornils: in Appl. Homog. Catal. VCH, Weinheim, 1996; p.3, p.575
8. K.V. Katti: Curr. Sci., 70, 219 (1996)
9. B. Cornils, W.A. Herrmann, R.W. Eckl: J. Mol. Catal. A. Chem., 116, 27 (1997)
10. J. Cermak, M. Kvícalová: Collect. Czech. Chem. Commun., 62, 355 (1997)
11. B. Cornils: Angew. Chem. Int. Edit. Engl., 36, 2057 (1997)
12. C.J. Smith, V.S. Reddy: Inorg. Chem., 36, 1786 (1997)
13. G. Verspui, G. Papadogianakis, R. A. Sheldon: Catal. Today, 42, 449 (1998)
14. G. Verspui,: J. Chem. Soc. Chem. Comm., 401 (1998)
15. B. Driessen-Hölscher, J. Heinen: J. Organomet. Chem., 570, 141 (1998)
16. B. Cornils: Aqueous-Phase Organomet. Cat., Wiley-VCH, Weinheim, 1998, 15
17. G. Laurenczy: Aqueous-Phase Organomet. Cat. Wiley-VCH, 1998, p. 54
18. B. Cornils: Aqueous-Phase Organomet. Cat., Wiley-VCH, 1998, p. 267
19. B. Cornils: Aqueous-Phase Organomet. Cat. Wiley-VCH, 1998, p. 282
20. B. Driessen-Hölscher: Adv. Catal., 42, 473 (1998)
21. G. Papadogianakis: Catal., Vol 13. (Sen. reporter: J.J. Spivey), 1997, p. 114
22. C. Bianchini: J. Am. Chem. Soc., 121, 5961 (1999)
23. M. Karlsson: J. Chem. Soc. Dalton. Trans., 4187 (1999)
24. S. Ogo, N. Makihara, Y. Watanabe: Organometallics, 18, 5470 (1999)
25. T. Funaioli: Inorg. Chem., 38, 3361 (1999)
26. C. Balzarek, D. R. Tyler: Angew. Chem. Int. Ed., 38, 2406 (1999)
27. C. Bianchini: Macromolecules, 32, 3859 (1999)
28. G. Verspui: J. Mol. Catal. A. Chem., 146, 299 (1999)
29. J. Cermak, M. Kvícalová, V. Blechta: Appl. Organomet. Chem., 14, 164 (2000)
30. Y.Y. Yan, T.V. RajanBabu: J. Organomet. Chem., 65, 900 (2000)
31. M. Saoud, A. Romerosa, M. Peruzzini: Organometallics, 19, 4005 (2000)
32. N. Makihara, S. Ogo, Y. Watanabe: Organometallics, 20, 497 (2001)
33. G. Oehme:Comprehensive Asym. Catal., Springer, Berlin, 1999, pp. 1377-1386
35. S. Ogo: Organometallics, 20, 4903 (2001)
36. L.Y. Kuo, T.J.R. Weakley, K. Awana, C. Hsia: Organometallics, 20, 4969 (2001)
37. H.Y. Rhyoo, H-J. Park, Y. K. Chung: Chem. Commun., 2064 (2001)
38. S. Ogo, H. Nakai, Y. Watanabe: J. Am. Chem. Soc., 124, 597 (2002)
39. H. Nakai, S. Ogo, Y. Watanabe: Organometallics, 21, 1674 (2002)
40. S. Ogo, T. Abura, Y. Watanabe: Organometallics, 21, 2964 (2002)
41. Y. Huang: J. Mol. Catal. A. Chem., 185, 41 (2002)
42. M. Lautens, J. Mancuso: Organic Letters, 4, 2105 (2002)
43. H. Fuhrmann, T. Dwars, G. Oehme: Chem. Unserer Zeit, 37, 40 (2003)
44. L.Y. Kuo, D.M. Finigan,, .N.N. Tadros: Organometallics, 22, 2422 (2003)
45. A.A. Bowden: Inorg. Reaction Mechanisms, 3, 249 (2002)
46. Z. Hasefa: Inorg. Chim. Acta, 352, 31 (2003)
47. D.J. Darensbourg: Organometallics, 23, 1747 (2004)
48. D.J. Darensbourg: Aqueous-Phase Organomet. Catal., Wiley-VCH, 2004, p. 71
49. G. Papadogianakis: Aqueous-Phase Organomet. Cat., Wiley-VCH, 2004, p.158
50. H. Hayash: Inorg. Chim. Acta, 357, 2939 (2004)
51. A.D. Phillips: Coord. Chem. Rev., 248, 955 (2004)5

52. R.H. Grubbs: *Tetrahedron*, 60, 7117 (2004)
53. A.M. Santos: in *Multiphase Homogeneous Catalysis*, Wiley-VCH, 2005, p. 55

40. Scherer, J., Huttner, G., Büchner, M., Bakos, J.:
Chirale Tripod-Rhodium Komplexe: Ligandsynthese, Komplexchemie, Katalyse.
J. Organomet. Chem. 540, 45 (1996) IF: 1.794 (1996)
1. Jacobi, A.: *Chem. Ber.* 130, 1279(1997)
 2. Holz, J.: *Synthesis-S* 983 (1997)
 3. Pastor, S. D.: *Tetrahedron: A.* 9, 543 (1998)
 4. Soltek, R.: *Inorg. Chem.* 269, 143 (1998)
 5. Karas, J.: *Eur. J. Inorg. Chem.* 405 (1999)
 6. Bitterer, F.: *Inorg. Chem.* 37, 6408 (1998)
 7. Botteghi, C.: *J. Mol. Catal. A-Chem* 143, 311 (1999)
 8. Laurenti, D.: *Org. Prep. Proced. Int.* 31, 245 (1999)
 9. Pamiez, O.: *Eur. J. Inorg. Chem.* 1287 (2000)
 10. Vogelgesang, J.: *Eur. J. Inorg. Chem.* 1287 (2000)
 11. Contreras, RH.: *Progr. Nucl. Magn. Res. SP* 37, 321 (2000)
 12. Huttenloch, O.: *Chem. Eur. J.* 7, 671 (2001)
 13. Vogelgesang, J.: *Eur. J. Inorg. Chem.* 949 (2001)
 14. Suarez, A.: *Tetrahedron: A.* 9, 543 (2001)
 15. Van den Broeke, J.: *Organometallics* 20, 2114 (2001)
 16. Huttenloch, O.: *Chem-Eur.* 8, 4767 (2002)
 17. Huttenloch, O.: *Chem. Commun.* 7, 673 (2002)
 18. Gorman JST, Lynch V, Pagenkopf BL, et al.: *Tetrahedr. L.* 44, 5435 (2003)
 19. Shum SP, Pastor SD, DeBellis AD, et al.: *Inorg. Chem.* 42, 5097 (2003)
 20. Chakravarty M, Srinivas B.: *Synthesis-Stuttgart* (15): 2368 (2003)
 21. Mandoli A, Calamante M.: *Tetrahedron: Asymmetry* 14, 3647 (2003)
 22. Theil A, Hitce J, Retailleau P, et al.: *Eur. J. Org. Chem.* (1): 154 (2006)
 23. Ionescu G, van der Vlugt JI.: *Tetrahedron: Asymmetry* 16, 3970 (2005)
 24. Breit B, Fuchs E.: *Synthesis-Stuttgart* (13): 2121 (2006)
 25. Balaraman E, Swamy KCK.: *Tetrahedron: Asymmetry* 18, 2037 (2007)
 26. Chaplin AB, Dyson PJ.: *Eur. J Inorg. Chem.* 31, 4973 (2007)
 27. Kannan S, Kumar KN, Ramesh R.: *Polyhedron* 27, 701 (2008)
- 2008.08.05.

41. J. Bakos, Á. Orosz, S. Sz, Cserépi, I. Tóth. and D. Sinou:
Chiral Sulfonated Phosphines. Rhodium(I)-catalyzed Asymmetric Hydrogenolysis of Epoxides.
J. Mol. Catal. A. 116, 85 (1997) IF: 1.478 (1997)

1. deBruin, B.: *Angew. Chem.* 36, 2064 (1998)
 2. Driessen-Holscher, B.: *Adv. Catal.* 42, 473 (1998)
 3. Trinkhaus, S.: *J. Mol. Catal. A.* 144, 15 (1999)
 4. Torrent, Can. *J. Chem.* 77, 1476 (1999)
 5. Yonehara, J. *Org. Chem.* 64, 5593 (1999)
 6. Yonehara, J. *Org. Chem.* 64, 9381 (1999)
 7. Hashizume, T. *J. Org. Chem.* 65, 197 (2000)
 8. Torrent, M. *Chem. Rev.* 100, 439 (2000)
 9. de Bruin, B. *Chem.-Eur. J.* 6, 298 (2000)
 10. Joó, F. *Aqueous Organomet. Chem. Bk.* (2001)
 11. Dwars, T.: *Adv. Synth. Catal.* 344, 239 (2002)
 12. Ito M, Hirakawa M, Osaku A, et al.: *Organometallics* 22, 4190 (2003)
 13. de Bruin B, Budzelaar PHM.: *Angew. Chem. Int. Edit.* 43, 4142 (2004)
 14. Guan HR, Saddoughi SA.: *Organometallics* 24, 6358 (2005)
- 2008.08.05.

41. Bucsay, J. Bakos, M. Laghmari, D. Sinou:
Mechanistic Aspects of the Hydrogenation of Some Unsaturated Mono and Diacids and their Methyl Esters
J. Mol. Catal. A. 116, 335 (1997) IF: 1.478 (1997)

1. Joo F, Papp E.: Topics Cat. 5, 113 (1998)
2. Arzoumanian, H.: Compt. Rend. Acad. Sci. Ser. II Chim., 2, 289 (1999)
3. Nadasdi, L.: Inorg. Chim. Acta 293, 218 (1999)
4. Papp, E.: React. Kin. Catal. L. 69, 23 (2000)
5. Tanchoux, N.: Eur. J. Inorg. Chem. 1495 (2000)
6. Kovacs, G.: CR Acad. SCI II C 3, 601 (2000)
7. Grassert, I.: J. Organomet. Chem. 621, 158 (2001)
8. Dwars, T.: Adv. Synth. Catal. 344, 239 (2002)
9. Kovacs G, Nadasdi L.: Green Chem. 5, 213 (2003)
10. Schmidt T, Dai Z.: Chem. A EU J. 14, 4469 (2008)

2008.08.05.

42. Tóth, I., Elseiver, C. J., de Vries, J. G., Bakos, J., Smeets, W. J. J., Spek, A.:
Synthesis of Pt Compounds Containing Chiral (2S,4S)-Pentane-2,4-diyl-bis(5H-dibenzo[b]phosphindole) as Ligand, and their Use in Asymmetric Hydroformylation of Styrene Derivatives.

J. Organomet. Chem. 540, 15 (1997)

IF: 1.724 (1997)

1. Csók, Inorg. Chem. 38, 831 (1999)
2. Csók, J. Organomet. Chem. 586, 79 (1999)
3. Wills, J. Chem. Soc. Perkin Trans. 1109 (1999)
4. Clarke, M. L.: Polyhedron 20, 151 (2001)
5. Ogasawara, M.: Organometallics 20, 1014 (2001)
6. Dahlenburg, L.: Organomet. Chem. 630, 221 (2001)
7. Krauss, I. J.: J. Am. Chem. Soc. 123, 11514 (2001)
8. Bansal, R. K.: Chem. Rev. 101, 3549 (2001)
9. Herd, O.: Inorg. Chem. 41, 5034 (2002)
10. Sava, X.: Eur. J. Inorg. Chem. 7, 1657 (2002)
11. Hydrio, J.: Tetrahedron-A. 13, 1097 (2002)
12. Thoonen SHL, Lutz M.: Organomet. 22, 1156 (2003)
13. Spino C.: Org. Prep. Proced. Int. 35, 3 (2003)
13. Keglevich G, Kegl T.: J. Mol. Catal. A: Chem. 200, 131 (2003)
14. Mourgues S, Serra D.: Eur. J. Inorg. Chem. (15): 2820 (2003)
15. Mikami K, Yusa Y.: Chem. Commun. (1): 98 (2004)
16. Mikami K, Yusa Y.: Tetrahedron 60, 4475 (2004)
17. Herseczki Z, Gergely I.: Tetrahedron: A 15, 1673 (2004)
18. Zhang WX, Zheng WX.: Chin. J. Org. Chem. 24, 1323 (2004)
19. Holloway CE, Melnik M.: Rev. Inorg. Chem. 24, 135 (2004)
20. Janosi L, Kollar L.: J. Orgmet. Chem. 691, 2846 (2006)
21. Diaz AA, Young JD.: Inorg. Chem. 45, 5568 (2006)
22. Cortes JGL.: Eur. J. Inorg. Chem. (24) 5148 (2006)

2008.08.05.

44. Cserépi-Szűcs, S., Bakos, J.:
Asymmetric hydroformylation catalysed by platinum complexes of new chiral bisphosphites.

ChemComm., 635 (1997)

IF: 3.200 (1997)

1. Kadyrov, R.: Tetrahedron: A., 9, 329 (1998)
2. Pastor, SD.: Tetrahedron: A., 9, 543 (1998)
3. Ungváry, F.: Coordination Chem. Rev. 1720, 245 (1998)
4. Lin Pu: Chem. Rev. 98, 2409 (1998)
5. Imamoto, T.: J. Syn. Org. J. 56, 511 (1998)
6. Wills, J. Chem. Soc. Perkin Trans. 1109 (1999)
7. Botteghi, J. Mol. Catal. A: Chem. 143, 311 (1999)
8. Breuzard JAJ.: J. Mol. Catal. A-Chem. 156, 223 (2000)
9. Breeden S, : Angew. Chem. Int. Edit. 39, 4106 (2000)
10. Breit B, Seiche W.: Synth. Stuttg. 1 (2001)
11. Naili, S.: J. Organomet. Chem. 628, 114 (2001)
12. Dahlenburg, L.: Organomet. Chem. 630, 221 (2001)
13. Zhang, ZJ.: Prog. Chem. 14, 446 (2002)

14. Foca, C. M.: *J. Mol. Catal. A-Chem.* 185, 17 (2002)
15. Saluzzo, C.: *J. Organomet. Chem.* 643, 98 (2002)
16. Spino C.: *Org. Prep. Proced. Int.* 35, 3 (2003)
17. Gavrilov KN, Bondarev OG.: *USP KH* 73, 726 (2004)
18. van der Vlugt JI.: *Eur. J. Inorg. Chem.* 21, 4193 (2004)
19. Bhowmick KC, Joshi NN.: *Tetrahedron: A* 17, 1901 (2006)

2008.08.05.

45. Gulyás, H., Árva, P and Bakos, J.:
A new route for the synthesis of amphiphilic and water-soluble ligands: mono- and ditertiary phosphines having an alkylene sulfate chain.
J. Chem Soc. Chem. Commun. 2385 (1997) IF: 3.200 (1997)

1. Bunet, J. *Organomet. Chem.* 566, 117 (1998)
2. Penicaud, *Eur. J. Org. Chem.* 1745 (1999)
3. Gelpke, *Tetrahedron* 55, 6657 (1999)
4. Valls E., Suades J.: *Organomet.* 18, 5475 (1999)
5. Chauvin R.: *Eu. J. Inorg. Chem* 4, 577 (2000)
6. Fries, *Angew. Chem. Int. Edit.* 39, 564 (2000)
7. Joó, F.: *Aqueous Organomet. Chem. Bk.* (2001)
8. Lipshutz BH, Blomgren PA.: *Org. Lett.* 3, 1869 (2001)
9. Solsona A, Suades J, Mathieu R.: *J. Orgmet. Chem.* 669, 172 (2003)
10. Fries G, Wolf J, Ilg K, et al.: *J. C. S. Dalton* (12): 1873 (2004)

2008.08.05.

46. Sinou, D., and Bakos, J.:
(S,S)-2,3-Bis[di(m-sodiumsulfonatophenyl)phosphino]butane (Chiraphos_TS), (S,S)-2,4-Bis[di(m-sodiumsulfonatophenyl)phosphino]pentane (BDPP_TS), (S,S)-1,2-Bis[di(m-sodiumsulfonatophenyl)phosphino]methyl)cyclobutane Cyclobutanediop_TS).
Inorg. Synth. 32, 35 (1998). IF: 11.6 (1998)

1. Joó, F.: *Aqueous Organomet. Chem. Bk.* (2001)

47. Cserépi-Szűcs, S., Tóth, I., Párkányi, L. and Bakos, J.:
Asymmetric Hydroformylation by Using Rhodium and Platinum Complexes of Diphosphites Containing Chiral Chelate Backbones and Chiral 1,3,2-Dioxaphosphorinane Moieties.
Tetrahedron: Asymmetry 9, 3135-3142 (1998) IF: 2.484 (1998)

1. Pamies, J.: *Tetrahedron: A* 11, 1097 (2000)
2. Cobley, CJ.: *J. Chem. Soc. Dalton* 7, 1101 (2000)
3. Uriz, P.: *Inorg. Chem. Commun.* 515 (2000)
4. Dieguez, M.: *New J. Chem.* 26, 827 (2002)
5. Dieguez, M.: *J. Org. Chem.* 67, 3796 (2002)
6. Shum SP, Pastor SD.: *Inorg. Chem.* 42, 5097 (2003)
7. Tellenbach A.: *Eur. J. Inorg. Chem.* (20): 3759 (2003)
8. Dieguez M, Pamies O.: *Tetrahedron: A* 15, 2113 (2004)
9. Brase S, Dahmen S.: *Synlett* (15): 2647 (2004)
10. Xue S, Jiang YZ.: *Chinese J. Chem.* 22, 1456 (2004)
10. Odinets R, Kegl T.: *J. Orgmet. Chem.* 690, 3456 (2005)
11. Lauterwasser F, Nieger M.: *Chem. Eur. J.* 11, 4509 (2005)
12. Shum SP, King RE.: *Phosp. Sulf. Sil. R. Elem.* 182, 2611 (2007)

2008.08.05.

48. Cserépi-Szűcs, S., Huttner, G., Zsolnai, L., and Bakos, J.:
Asymmetric hydroformylation of styrene using rhodium and platinum complexes of diphosphites containing atropisomeric backbones and chiral 1,3,2-dioxaphosphorinane moieties
J. Organometal. Chem. 586, 70-78 (1999) IF: 1.453 (1999)

1. Cobley, C. J.: *J. Chem. Soc. Dalton*, 7, 1101 (2000)
2. Lot, O.: *J. Mol. Catal A-Chem.* 164, 125 (2000)
3. Uriz, P.: *Inorg. Chem. Commun.* 515 (2000)
4. Naili, S.: *J. Organomet. Chem.* 628, 114 (2001)
5. Ungváry, F.: *Coordin. Chem. Rev.* 213 (2001)
6. Dahlenburg, L.: *Organomet. Chem.* 630, 221 (2001)
7. Steyer, S.: *J. Chem. Soc. Dalton* 22, 4264 (2002)
8. Gavrilov, K. N.: *J. Organomet. Chem.* 655, 204 (2002)
9. Moreno MA, Haukka M, Pakkanen TA.: *J. Cat.* 215, 326 (2003)
10. Agbossou-Niederborn F, Suisse I.: *Coordin. Chem. Rev.* 242, 145 (2003)
11. van der Vlugt JI, Ackerstaff J.: *Adv. Synth. Catal.* 346, 399 (2004)
12. Dieguez M, Pamies O, Claver C.: *Tetrahedron: Asymmetry* 15, 2113 (2004)
13. Gavrilov KN, Bondarev OG, Polosukhin AI.: *USP KH* 73, 726 (2004)
14. Zhang Y, Nagasaka K, Qiu XQ, et al.: *Appl. Catal. A.* 276, 103 (2004)
15. Pavlov VA.: *USP KH* 73, 1269 (2004)
16. Odinets R, Kegl T, Sharova E, et al.: *J. Orgmet. Chem.* 690, 3456 (2005)
17. Shum SP, King RE.: *Phosp. Sulf. Silicon & Rel. Elem.* 182, 2611 (2007)
18. Lauterwasser F, Nieger M.: *Chem.-A EU J.* 11, 4509 (2005)

2008.08.05.

49. Cserépi-Szűcs, S., Huttner, G., Zsolnai, L., Szöllősy, Á., Hegedüs, Cs., and Bakos, J.:
 Synthesis of chiral diphosphite ligands and a comparison of their rhodium and platinum complexes in the asymmetric hydroformylation of styrene
Inorg. Chim. Acta 296/1, 222-230 (1999) IF: 1.295 (1999)

1. Uriz, P.: *Inorg. Chem. Commun.* 3, 515 (2000)
2. Sturla SJ, Buchwald SL.: *J. Org. Chem.* 67, 3398 (2002)
3. Smith AR.: *Phosph. Sulf. Sil. R. Elem.* 177, 479 (2002)
5. Foca CM.: *J. Mol. Catal. A: Chem.* 185, 17 (2002)
6. Au-Yeung TTL.: *Adv. Synth. Catal.* 345, 537 (2003)
7. Shum SP, Pastor SD.: *Inorg. Chem.* 42, 5097 (2003)
8. Rocha WR.: *J. Mol. Struct.-Theochem* 677, 133 (2004)
9. Dieguez M, Pamies O.: *Tetrahedron: A* 15, 2113 (2004)
10. Wang LL, Li YM.: *Adv. Synth. Catal.* 346, 947 (2004)
11. Brase S, Dahmen S.: *Synlett* 15, 2647 (2004)
12. Lauterwasser F, Nieger M.: *Chem. Eur. J.* 11, 4509 (2005)
13. Wang LL, Guo RW.: *Tetrahedron: A* 16, 3198 (2005)
14. He L.: *Acta Crystall. Sect. E-Struct. R.* 62, O5517 (2006)
15. Punji B, Balakrishna MS.: *J. Orgmet. Chem.* 692, 1683 (2007)
16. Zhao QL, Wang LL.: *Tetrahedron: A* 18, 1899 (2007)
17. Junge K, Hagemann B.: *ARKIVOC* 50 (2007)

2008.08.05.

50. Gulyás, H. Dobó, A., Bakos, J.:
 Synthesis of sulfated mono- and ditertiary phosphines, complex chemistry and catalysis
Can. J. Chem., 73, 1040 (2001) IF: 1.050 (2000)

1. Solsona A, Suades J, Mathieu R.: *J. Orgmet. Chem.* 669, 172 (2003)
2. Ungváry F.: *Coord. Chem. Rev.* 228 1 61 (2002)

2008.08.05.

51. Bakos, J., Cserépi-Szűcs, S., Hegedüs, C., Markó, L. and Szöllősy, Á.:
 Asymmetric Hydroformylation of Styrene Catalyzed by Platinum Complexes of Chiral Diphosphites with Atropisomeric Terminal Moieties
Can. J. Chem. 73, 725 (2001) IF: 1.050 (2000)

1. Ungváry, F.: *Coordin. Chem. Rev.* 228, 61 (2002)
2. Wesemann, L.: *Eur. J. Inorg. Chem.* (9) 2261 (2002)
3. Au-Yeung TTL, Chan SS: *Adv. Synth. Cat.* 345, 537 (2003)

4. Marx T, Mosel B: Chem.-A EU. J. 9, 4472 (2003)
5. Ren YL, Zhao WC.: Prog. Chem. 16, 266 (2004)
6. Clarkson GJ: Tetrahedron: A 15, 1787 (2004)
7. Wesemann L. Zeitschr. Anorg. Allgem. Chem. 630, 1349 (2004)
8. Bortenschlager M: J. Mol. Catal. A 233, 67 (2005)
9. van Duren R, Cornelissen LLJM: Helv. Chim. Acta 8, 1547 (2006)
10. Bantu B, Wurst K: J. Organomet. Chem. 692, 5272 (2007)

2008.08.05.

52. Hegedüs, C., Madarász, J., Gulyás, H., Szöllösy, Á., Bakos, J.:
One-pot synthesis of a chiral diphosphine having C₁ symmetry from 1,3-cyclic sulfate.
Asymmetric hydroformylation of styrene
Tetrahedron: Asymmetry 12, 2867-2873 (2001) IF: 2.797 (2000)

1. Ungváry, F.: Coordin. Chem. Rev. 228, 61 (2002)
2. Dahlenburg L.: Tetrahedron. L. 44, 9279 (2003)
3. Mikami K, Yusa Y.: Chem. Comm. (1): 98 (2004)
4. Ren YL, Zhao WC.: Prog. In Chem. 16, 266 (2004)
5. Mikami K, Yusa Y.: Tetrahedron 60, 4475 (2004)
6. van der Vlugt JI.: Eur. J. Inorg. Chem. (21): 4193 (2004)
7. Kani I, Flores R.: J. Supercritical Fluids 31, 287 (2004)

2008.08.05.

53. Gulyás, H., Hanson, B.E., Szöllösy, Á., Bakos, J.:
A direct approach to selective sulfonation of triarylphosphines
Tetrahedron Letters, (2002) IF: 2.280 (2001)

1. Leadbeater, NE.: Org. Lett. 4, 2973 (2002)
2. Leadbeater NE, Marco M.: J. Org. Chem. 68, 888 (2003)
3. Pinault N, Bruce DW.: Coordin. Chem. Rev. 241: 1 (2003)
4. Gulyas H, Szollosy A.: Eur. J. Org. Chem. (15): 2775 (2003)
5. Western EC, Daft JR.: J. Org. Chem. 68, 6767 (2003)
6. Moore LR, Shaughnessy KH.: Org. Lett. 6, 225 (2004)
7. Gulyas H, Benyei AC.: Inorg. Chim. Acta 357, 3094 (2004)
8. Cravotto G, Palmisano G.: Ultras. Sonochem. 12, 91 (2005)
9. Wang X, Fu HY.: Catalysis Com. 5, 739 (2004)
10. Shaughnessy KH.: Current Org. Chem. 9, 585 (2005)
11. Chang CP, Huang YL.: Tetrahedron 61, 3835 (2005)
12. Anderson KW.: Angew. Chem. Int. Edit. Engl. 44, 6173 (2005)
13. Shaughnessy KH.: Eur. J. Org. Chem. (8): 1827 (2006)
14. Gulyas H, Bacsik Z.: Adv. Synth. Catal. 348, 1306 (2006)
15. Fu HY, Guo Y.: Chinese J. Cat. 27, 1053 (2006)
16. Moore LR, Western EC.: Organometallics 27, 576 (2008)
17. Ferreira M, Bricout H.: Adv. Synth. Catal. 350, 609 (2008)
18. Genet JP, Darses S.: Pure Applied Chem. 80, 831 (2008)

2008.08.05.

54. Gergely, I., Hegedüs, C., Gulyás, H., Szöllösy, Á., Monsees, A., Riermeier, T., Bakos, J.:
Highly Active and Enantioselective Hydrogenation Catalyzed by Rhodium Complexes of
Chiral Phosphites with Atropisomeric Moieties
Tetrahedron: Asymmetry 14, 1087-1090 (2003) IF: 2.265 (2001)

1. Clarke ML.: Current Org. Chem. 9, 701 (2005)
2. Ungvary F.: Coordin. Chem. Rev. 249, 2946 (2005)
3. Kleman AM, Abraham MA.: Indust. & Engin. Chem. Res. 45, 1324 (2006)
4. Flanagan SP, Guiry PJ.: J. Orgmet. Chem. 691, 2125 Sp. Iss. SI (2006)
5. Bektesevic S, Kleman AM.: J. Supercritical Fluids 38, 232 (2006)

2008.08.05.

55. Gergely, I., Hegedüs, C., Gulyás, H., Szöllösy, Á., Monsees, A., Riermeier, T., Bakos, J.: Enantioselective hydrogenation catalyzed by highly active rhodium complexes of chiral phosphites with atropisomeric moieties
Tetrahedron: Asymmetry 14, 1087-1090 (2003)

1. Li XS, Jia X, Lu G.: *Tetrahedron: A* 14, 2687 (2003)
2. Reetz MT: *Chimica OGGI-Chem. Today* 21, 5 (2003)
3. Reetz MT, Mehler G: *Tetrahedron: A* 15, 2165 (2004)
4. Jerphagnon T, Renaud JL.: *Tetrahedron: A* 15, 2101 (2004)
5. Reetz MT, Li XG.: *Tetrahedron* 60, 9709 (2004)
6. Xu YJ, Alcock NW.: *Organic Let.* 6, 4105 (2004)
7. Dubrovina NV, Borner A.: *Angew. Chem.* 43, 5883 (2004)
8. Huang HM, Liu XC.: *Tetrahedron: A* 16, 693 (2005)
9. Gavrillov KN, Lyubimov SE.: *J. Mol. Catal. A* 231, 255 (2005)
10. Zeng QH, Hu XP.: *Tetrahedron: A* 16, 1233 (2005)
11. Xu YJ, Clarkson GC.: *J. Org. Chem.* 70, 8079 (2005)
12. Kostas ID.: *Appl. Orgmet. Chem.* 19, 1090 (2005)
13. Zsigmond A.: *React. Kinet. & Catal. Let.* 87, 297 (2006)
14. Chapsal BD, Hua ZH, Ojima I.: *Tetrahedron: A* 17, 642 (2006)
15. Zsigmond A, Undrala S.: *Appl. Catal. A* 303, 29 (2006)
16. Cramer N, Laschat S.: *Organomet.* 25, 2284 (2006)
17. Flanagan SP, Guiry PJ.: *J. Org. Chem.* 691, 2125 (2006)
18. Xu YJ, Docherty GF.: *Tetrahedron: A* 17, 2925 (2006)

2008.08.05.

56. Gulyás, H., Szöllösy, Á., Szabó, P., Halmos, P., Bakos, J.
Preparation of new sulfonated triarylphosphanes: control of the selectivity by structural assistance
European Journal of Org. Chem. 2275-2281 (2003) IF: 2.193 (2001)

1. Anderson KW.: *Angew. Chem. Int. E.* 44, 6173 (2005)
2. Shaughnessy KH.: *Eur. J. Org. Chem.* 8, 1827 (2006)
3. Ferreira M, Bricout H.: *Adv. Synth. Catal.* 350, 609 (2008)

2008.08.05.

57. Gergely, I., Hegedüs, C., Szöllösy, Á., Monsees, A., Riermeier, T., Bakos, J.:
Electronic and Steric Effects of Ligands as Control Elements for Rhodium Catalyzed Asymmetric Hydrogenation
Tetrahedron Letters 44, 9025-9028 (2003) IF: 2.357 (2002)

1. Geldbach TJ, Chaplin AB.: *Organomet.* 24, 4974 (2005)
2. Flanagan SP, Guiry PJ.: *J. Orgmet. Chem.* 691, 2125 (2006)
3. Frater T, Gubicza L, Szollosy A, et al.: *Inorg. Chim. Acta* 359, 2756 (2006)
4. Holz J, Zayas O, Jiao HJ, et al.: *Chem. Eur. J.* 12, 5001 (2006)
5. Stephenson P, Kondor B.: *Adv. Synth. Catal.* 348, 1605 (2006)
6. Najera C, Sansano JM.: *Chem. Rev.* 107, 4584 (2007)

2008.08.05.

58. Gergely, I., Hegedüs, C., Bakos, J.:
Nagy enantioszelektivitású és aktivitású homogénkatalitikus hidrogénező katalizátorok IX. Nemzetközi Vegyészkonferencia, Kolozsvár, könyvrészlet, p. 251-254 (2003)
59. Gulyás, H., Bényei, AC., Bakos, J.:
Catalytic properties of water-soluble rhodium and iridium complexes: the influence of the

ligand structure

Inorg. Chim. Acta, 357 (10), 3094-3098 (2004)

IF: 1.566 (2002)

1. Shaughnessy KH.: *Eur. J. Org. Chem.* 8, 1827 (2006)
2. Liu SF, Xiao JL.: *J. Mol. Catal. A: Chem.* 270, 1 (2007)
3. Moore LR, Western EC.: *Org. Met.* 27, 576 (2008)
4. Ferreira M.: *Adv. Synth. Cat.* 350, 609 (2008)

2008.08.05.

60. Herseczki, Z., Gergely, I., Hegedüs, C., Szöllösy, Á., Bakos, J.:
Electronic and Steric Effects of Ligands as Control Elements for Rhodium Catalyzed Asymmetric Hydrogenation (II)

Tetrahedron: Asymmetry, 15, 1673-1676 (2004)

IF: 2.163 (2002)

1. Zsigmond A, Balatoni I.: *Cat. Lett.* 101, 195 (2005)
2. Benincori T, Pilati T.: *J. Org. Chem.* 70, 5436 (2005)
3. Dubrovina NV.: *Tetrahedron: A* 16, 3640 (2005)
4. Zsigmond A, Undrala S.: *Appl. Catal. A* 303, 29 (2006)
5. Flanagan SP.: *J. Orgmet. Chem.* 691, 2125 Sp. Iss. SI (2006)
6. Frater T, Gubicza L.: *Inorg. Chim. Acta* 359, 2756 (2006)
7. Holz J, Zayas O.: *Chem. Eur. J.* 12, 5001 (2006)
8. Liu SF, Berry N.: *J. Org. Chem.* 71, 7467 (2006)
9. Bilenko V, Spannenberg A.: *Tetrahedron: A* 17, 2082 (2006)
10. Najera C, Sansano JM.: *Chem. Rev.* 107, 1584 (2007)
11. Zhang WX, Nishiura M.: *Chem.-A Eu J.* 14, 2167 (2008)

2008.08.05.

61. Hegedüs, C., Madarász, J., Gergely, I., Szöllösy, Á., Monsees, Riermeier, T., Bakos, J.:
Electronic and steric effects of ligands as control elements for rhodium-catalyzed asymmetric hydroformylation. Part III: Highly active hydroformylation of styrene.

Tetrahedron: Asymmetry 2507-2513 (2004)

IF: 2.163 (2002)

1. Clarke ML.: *Current Org. Chem.* 9, 701 (2005)
2. Ungvary F.: *Coordin. Chem. Rev.* 249, 2946 (2005)
3. Kleman AM.: *Indust. & Engin. Chem. Res.* 45, 1324 (2006)
4. Flanagan SP.: *J. Orgmet. Chem.* 691 2125 Sp. Iss. SI (2006)
5. Bektsev S.: *J. Supercritical Fluids* 38, 232 (2006)

2008.08.05.

62. Cserépi-Szűcs, S., Bakos, J.:
Platinum-catalysed asymmetric hydroformylation of styrene.
"Catalysis for the Fine Chemical Industry" Volume 3 chapter 12.3
in Metal Catalysed Carbon-Carbon Bond Forming Reactions
John Wiley & Sons Ltd, New York, 238-244 (2004)

63. Gergely, I., Hegedüs, C., Bakos, J.:
Jobb és balkezes molekulák. Nagy aktivitású és szelektivitású hidrogénező katalizátorok.
Tudományos előadások, Magyar Tudományos Akadémia Veszprémi Területi Bizottsága,
Veszprém, 95-106 (2004)

64. Gergely, I., Hegedüs, C., Bakos, J.:
(S)-2,2'-Bis[[di(4-methoxy-phenyl)phosphinyl]oxy]-5,5',6,6',7,7',8,8'-octahydro-1,1',
binaphthyl as a Ligand for Rhodium-Catalyzed Asymmetric Hydrogenation
"Catalysis for the Fine Chemical Industry. Volume 3 Carbon Carbon Bond Formation"
John Wiley & Sons Ltd, New York, (2007)

65. Zsigmond, Á., Balatoni, I., Notheisz, F., Hegedüs, C., Bakos, J.:
New, efficient, heterogenized catalysts for asymmetric hydrogenations of dehydroamino

acids derivatives

Catal. Letters, 101(3-4), 195-199 (2005)

IF: 1.559 (2002)

1. Najera C, Sansano JM.: *Chem. Rev.* 107, 4584 (2007)

2008.08.05.

66. Fráter T., Gubicza L., Szöllősy, Á., Bakos, J.:
Enantioszelektív hidrogénezés ionos folyadékokban: A Rh(COD)(DIPAMP)BF₄ katalizátor visszaforgathatósága [bmim]BF₄ ionos folyadékban
Műszaki Kémiai Napok, 2005. április Abstracts p. 286-289.

67. Fráter, T., Gubicza, L., Szöllősy, Á., Bakos, J.:
Enantioselective hydrogenation in ionic liquids: Recyclability of the [Rh(COD)(DIPAMP)]BF₄ catalyst in [bmim]BF₄

Inorg. Chim. Acta. 2756-2759 (2006)

IF: 1.554 (2004)

1. Durand J, Teuma E.: *Compt. Ren. Chim.* 10, 152 (2007)

2. Li SY, Yan WD.: *Fluid Phase Equil.* 261, 444 (2007)

2008.08.05.

68. Gulyás, H., Szöllősy, Á., Bakos, J.:
Facile synthesis of a TPPMS derivative having strong π -acceptor character
Adv. Synth. Catal., 348, 1306-1310 (2006)

IF: 4.632 (2006)

69. Zsigmond, Á., Suhsen, U., Notheisz, F., Szöllősy, Á., Bakos, J.,
Substituents effects in enantioselective hydrogenations catalyzed by immobilized Rh complexes

Appl. Catal. A: Gen., 303, 29-34 (2006)

IF: 2.378

1. Fan BB, Li HY.: *Appl. Catal. A* 340, 67 (2008)

2008.08.05.

70. Bakos, J.:

Fenntartható/zöld kémia és kémiai technológia

XXII. Kémiantanári Konferencia, 2006. aug. 21-24. Veszprém, előadásösszefoglalók 3-5.

71. Gergely, I., Hegedüs, C., Bakos, J.:

(S)-2,2'-Bis[[di(4-methoxy-phenyl)phosphinyl]oxy]-5,5',6,6',7,7',8,8'-octahydro-1,1',-binaphthyl as a Ligand for Rhodium-Catalyzed Asymmetric Hydrogenation

"*Catalysis for the Fine Chemical Industry. Volume 5, Regio- and Stereo-Controlled Oxidations and reductions*" Ed. S. T. Roberts, J. Whittall, John Wiley & Sons Ltd, New York, 36-41 (2007).

72. Bényei, A. Cs., Gulyás, H., Ozawa, Y., Kimura, K., Toriumi, K., Kégl, T., Bakos, J.:

X-ray structures of the tris(2,4-xylyl)phosphane and its trisulfonated derivative: molecular architecture of the first water-soluble sulfonated phosphane with propeller chirality

J. Organometal. Chem. **692**, 1845-1851 (2007).

IF: 2.378

73. Hegedüs, Cs., Gergely, I., Gulyás, H., Madarász, J. Szöllősy, Á., Bakos, J.:

Nagy aktivitású és szelektív homogénkatalitikus rendszerek kialakítása a ligandum szerkezetének finom hangolásával

Kémiai Folyóirat, **113**, 160-168 (2007).

74. Bakos, J.:

A Veszprémi Pannon Egyetem Szerves Kémikusai

A Magyar Kémikusok Egyesülete Centenárium Emlékkönyve, MKE, Stádium Nyomda Kft., 93-95 (2007).

75. Halmos, P., Bakos, J.:
A Magyar Kémikusok Egyesülete Veszprém Megyei Csoportjának 50 éve
A Magyar Kémikusok Egyesülete Centenárium Emlékkönyve, MKE, Stádium Nyomda Kft., 187-193 (2007).
76. Gulyás, H., Bakos, J.:
Trivalent Phosphorus Compounds in Asymmetric Catalysis, Synthesis and Applications,
Editor: Armin Börner, 8.4. Chiral Ligands Made by Asymmetric Catalysis, Wiley-VCH,
1244-1277 (2008).
77. Robé, E., Hegedüs, Cs., Bakos, J., Coppel, Y., Daran, J. C., Gouygou, M.:
Enantiopure platinum (II) complexes with chiral diphosphine and diphosphinite ligands
derived from 2,2-biphosphole: synthesis, crystal structure and catalysis
Inorg. Chim. Acta **361**, 1861-1867 (2008). IF: 1,674 (2006)
78. Balogh, J., Kuik, Á., Üрге, L., Bakos, J., Skoda-Földes, R.:
Double Carbonylation of Iodobenzene in a microfluidics-based high throughput flow
reactor
J. Mol. Catal., megjelenés alatt (2008). IF: 2.511 (2006)
79. Zsigmond, Á., Undrala, S., Notheisz, F., Szöllősy, Á., Bakos, J.:
The effect of substituents of immobilized Rh complexes on the asymmetric hydrogenation
of acetophenone derivatives,
Centr. Eur. J. Chem., **6**, 549 (2008). IF: 0.561 (2006)
78. Hegedüs, Cs., Gulyás, H., Szöllősy, Á., Bakos, J.:
Unusual Kinetic and thermodynamic control in the formation of Pt(II)-complexes of a new
C₁-symmetric phosphine-phosphite
Inorg. Chim. Acta, **362**, 1650-1654 (2009) IF: 1.674 (2006)
79. Robé, E., Hegedüs, Cs., Bakos, J., Daran, J. C., Gouygou, M.:
Chiral diphosphinites derived from 2,2-biphosphole as a new class of stereodynamic
ligands for enantioselective hydrogenation
J. Chem. Soc. Dalton Trans. publikálásra elküldve (2008)

Összes IF: 131,419 (2009. március 11)

Kiemelt hivatkozások:

Tetrahedron: Asymmetry, 3, 235 (1992)

“Low to medium enantiomeric excesses are usually obtained. However, a new development emerged when Bakos and Sinou working on water-soluble catalyst used partially sulphonated (2S,4S)-bis(diphenylphosphino)pentane (2S,4S)-BDPP, 2a) as ligand for the rhodium catalysed hydrogenation of acetophenone N-benzylimine (1) in a two-phase system (H₂O/EtOAc).”

Angew. Chem. Int. Edit. Engl. 32, 1524 (1993)

“In a later study, a linear relationship between $\lg(\%S/\%R)$ and the solphophobicity parameter S_p is demonstrated. A series of experiments with hydrophilic Rh complexes in solvent mixtures has shown that increasing S_p , the enantioselectivity $\lg(\%S/\%R)$ decreases linearly. The close relationship between stereoselectivity and the composition of the alcohol/water mixture used strongly suggests that the “two-phase” hydrogenation” takes place in the polar phase and not at the phase boundary.”

Chemical and Engineering News, 28 (1994)

“The prospect of adapting water-soluble materials as enantioselective catalysts is being explored by József Bakos, a professor of organic chemistry at the University of Veszprém, Hungary, and Denis Sinou, a research scientist at the University of Lyons I. A specific example is Bakos’ homogeneous hydrogenation of imines by using rhodium catalysts with sulfonated phosphines as ligands. With this system, the enantioselectivity of the product is very high, Bakos reports - as much as 96% in some cases.”

Angew. Chem. Int. Edit. 1999, 38, 181.

“Bakos et al. Synthesized the corresponding 2,5-bis(diphenylphosphino)idite from ditosylated 1,4:3,6-dianhydro-D-mannite by mean of double nucleophilic substitution under inversion of configuration with lithium diphenylphosphide and used this nonchelating diphosphane in asymmetric Rh-catalyzed hydrogenation.”

Angew. Chem. Int. Edit. 2000, 39, 564.

“Moreover, Gulyás, Árva, and Bakos prepared the chiral sulfate Ph₂PCH₂CH(Me)OSO₃Li, which has been employed as cocatalyst in a biphasic reaction for the rhodium-catalyzed hydroformylation of 1-octene.”

Dahlenburg, L. Organomet. Chem. 630, 221 (2001)

In pioneering contributions by Pittman, Consiglio, and Stille [3,4] and, more recently, in a communication by Cserépi-Szűcs and Bakos [5a] good to very high enantiomeric excesses of branched aldehydes could be attained with SnCl₂ – activated [bis(phosphane)]PtCl₂ and [bis(phosphite)]PtCl₂ catalyst systems.

N. V. Dubroniva, et al., Tetrahedron: Asymmetry, 16, 3640 (2005).

Recently, Bakos et al. reported on some interesting results with C₂-symmetric 1,3-diphosphine ligands of BDPP-type (BDPP=skewPHOS= chiral 2,4-bis(diphenylphosphino)pentane). Thus incorporation of one or more electron-donating groups in the P-aryl rings significantly decreased the enantioselectivity in the hydrogenation of itaconic acid and its dimethyl ester. In contrast, by employment of α -actamido acrylates as substrates electron-rich phosphines performed superior as ligands.