

## List of Publications

- Jeżowska-Trzebiatowska B., Sobota P., Utko J.**  
Catalytic synthesis of  $\text{MgH}_2$  in the system  $\text{VCl}_4$ - $\text{Mg-H}_2$  in tetrahydrofuran under mild conditions.  
*Bull. Acad. Polon. Sci. Ser. Chim.* **1976**, 4, 331-334
- Sobota P., Jeżowska-Trzebiatowska B., Utko J.**  
Catalytic hydrogenation of olefins with the  $\text{VCl}_4$ - $\text{Mg-H}_2$  system in tetrahydrofuran.  
*Reac. Kin. Catal. Letters* **1976**, 4, 113-119
- Sobota P., Wawrzeńczyk Cz., Utko J.**  
Reaction of the  $[\text{THFCl}_2\text{Mg}_2\text{Ti}]_2$  complex with ketones.  
*Bull. Acad. Polon. Sci. Ser. Chim.* **1977**, 12, 957-962
- Sobota P., Utko J., Wróblewski J.**  
Reaction of benzoyl or alcohol group containing compounds with the tetrachlorobis (THF) dititaniumtetramagnesium complex.  
*Bull. Acad. Polon. Sci. Ser. Chim.* **1980**, 9-10, 679-684
- Sobota P., Utko J., Janas Z.**  
New method of preparation of the anionic decacarbonyls  $[\text{M}_2(\text{CO})_{10}]^{2-}$  (M = Cr, Mo, W) and syntheses and properties of  $[\text{Mg}(\text{THF})_2][\text{M}_2(\text{CO})_{10}]$ .  
*J. Organometal. Chem.* **1982**, C38-C40, 233
- Sobota P., Utko J., Lis T.**  
Preparation and crystal structure of tri- $\mu$ -chloro-hexakis(tetrahydrofuran)dimagnesium(II) pentachloro(tetrahydrofuran)titanate(IV).  
*J. Chem. Soc., Dalton Trans.* **1984**, 2077-2079
- Sobota P., Utko J., Janas Z.**  
 $\text{MgCl}_2$  - one of the factors controlling the mechanism of the reaction between Grignard reagents and titanium or zirconium tetrachloride. II  
*J. Organometal. Chem.* **1986**, 316, 19-23.
- Utko J., Sobota P., Lis T.**  
The crystal structure of tetrachloro(diethylphtalate)titanium(IV).  
*J. Organometal. Chem.* **1987**, 334, 341-345
- Sobota P., Utko J.**  
 $\text{MgCl}_2$  - factor controlling the reaction mechanism of olefin polymerization.  
*Polymer Communications* **1988**, 29, 144-145
- Utko J., Sobota P., Lis T., Majewska K.**  
Reaction of  $\text{MgCl}_2$  with  $\text{AlCl}_3$  in ethyl acetate. The crystal structure of  $[\text{Mg}(\text{CH}_3\text{OCOC}_2\text{H}_5)]_2[\text{AlCl}_4]_2$ .  
*J. Organometal. Chem.* **1989**, 359, 295-300

11. **Sobota P., Pluziński T., Utko J., Lis T.**  
 Evidence for the existence of the  $[\text{MgCl}(\text{THF})_5]^+$  cation. Crystal structures of  $[\text{MgCl}(\text{THF})_5][\text{FeCl}_4] \cdot \text{THF}$  and  $[\text{MgCl}(\text{THF})_5][\text{AlCl}_4] \cdot \text{THF}$ .  
*Inorg.Chem.* **1989**, 28, 2217-2219
12. **Sobota P., Mustafa M.O., Utko J., Lis T.**  
 The crystal structure and properties of  $[\text{AlCl}_3(\text{C}_6\text{H}_5\text{COOC}_2\text{H}_5)]$ .  
*J. Organometal. Chem.* **1989**, 368, 257-262
13. **Utko J., Sobota P., Lis T.**  
 The crystal structure and properties of di- $\mu$ -m-diethylphthalateoctachlorodititanium(IV).  
*J. Organometal. Chem.* **1989**, 373, 63-69
14. **Sobot P., Mustafa M.O., Utko J., Lis T.**  
 Preparation and crystal structure of di- $\mu$ -acetato- $\mu$ -hydroxo-hexa(ethylacetate)dialuminiumtris(tetrachloroaluminate)  
*J. Chem. Soc. Dalton Trans.* **1990**, 1809-1812
15. **Sobota P., Utko J., Lis T.**  
 Interaction between  $\text{TiCl}_4$  and o-, m- and p-diester. The crystal structure of  $[\text{o-C}_6\text{H}_4(\text{COO-i-Bu})_2\text{TiCl}_4] \cdot \text{CH}_2\text{Cl}_2$  and  $[\text{p-C}_6\text{H}_4(\text{COOMe})_2\text{TiCl}_4]$ .  
*J. Organometal. Chem.* **1990**, 393, 349-358
16. **Sobota P., Ejfler J., Utko J., Lis T.**  
 Di- $\mu$ -chloro-tetrachlorobis(diethyl o-phthalate)ditanium(III), a new intermediate for the synthesis of titanium(III) compounds: crystal structure and properties.  
*J. Organomet. Chem.* **1991**, 410, 149-157
17. **Sobota P., Utko J., Lis T.**  
 The crystal structure and properties of di- $\mu$ -[bis(2-phenylethyl) m-phthalate]octachlorodititanium(IV)bis(dichloromethane)  
*J. Organometal. Chem.* **1991**, 417, 389-396
18. **Sobota P., Szafert S., Utko J., Lis T.**  
 $\text{Ti}^{\text{IV}}$  and  $\text{Mo}^{\text{V}}$  complexes with diesters. The crystal structure of  $[\text{o-C}_6\text{H}_4(\text{COCH}_2\text{CH}_2\text{Ph})_2\text{ClTi}]$ ,  $[\text{C}_2\text{O}_4(\text{CH}_2\text{CH}_2\text{Ph})_2\text{C}_4\text{Ti}]$  and  $[\text{o-C}_6\text{H}_4(\text{CO}_2\text{Et})_2\text{Cl}_3\text{MoO}] \cdot \text{C}_6\text{H}_6$ .  
*J. Organometal. Chem.* **1992**, 423, 195-210
19. **Lis T., Ejfler J., Utko J., Sobota P.**  
 The crystal structure of cis and trans isomers of  $[\text{TiCl}_4(\text{thf})_2]$   
*Polish. J. Chem.* **1992**, 66, 93-99

20. **Sobota P., Utko J., Lis T.**  
 Synthesis and structure of polymeric  $[1,3,5\text{-C}_6\text{H}_3(\text{CO}_2\text{Me})_3 \cdot 3\text{TiCl}_4]$   
 and dimeric  $[\{\mu\text{-}1,3,5\text{-C}_6\text{H}_3(\text{CO}_2\text{Me})_3\}_2\text{Cl}_8\text{Ti}_2] \cdot 2\text{CH}_2\text{Cl}_2$  compounds.  
*J. Organometal. Chem.* **1993**, 447, 213-220
21. **Sobota P., Olejnik Z., Utko J., Lis T.**  
 Synthesis, magnetic properties and structure of the  
 $[\text{Co}(\mu_3\text{-Cl})_2(\mu_2\text{-Cl})_4\text{Cl}(\text{thf})_6]$  complex.  
*Polyhedron* **1993**, 12, 613-616
22. **Utko J., Wróblewska M., Lis T., P. Sobota P.**  
 The crystal structure and properties of  $[1,3,5\text{-C}_6\text{H}_3(\text{CO}_2\text{Me})_3 \cdot 3\text{AlCl}_3]$   
*J. Organometal. Chem.* **1993**, 447, 159 -161
23. **Lis T., Utko J., Sobota P.**  
 Structure of Di- $\mu$ -chloro-bis[(allyl acetate-O)trichlorotitanium(IV)] at 80 K  
*Acta Cryst.* **1993**, C49, 2089-2091
24. **Sobota P., Utko J., Szafert S., Głowiak T.**  
 The crystal structure and properties of trichloro-bis(tetrahydrofurfuryl propionate-  
 O-O')yttrium(III)  
*Bull. Polish Acad. Sci. Chem.* **1994**, 42, 191-196
25. **Sobota P., Utko J., Szafert S.**  
 Ionization of  $\text{YCl}_3$  in tetrahydrofuran. Crystal structures of the [trans-  
 $\text{YCl}_2(\text{THF})_5$ ][trans- $\text{YCl}_4(\text{THF})_2$ ] salt and polymeric  $[\text{YCl}_3 \cdot 2\text{THF}]_\infty$  compounds.  
*Inorg. Chem.* **1994**, 33, 5203-5206
26. **Olejnik Z., Lis T., Utko J., Sobota P.**  
 Low temperature structures of *fac*-trichloro(tetrahydrofuran)D,L-tetrahydrofur-  
 furanol)titanium(III) and *fac*-trichloro(terahydrofuran)(D,L-tetrahydrofurfuroxide)  
 titanium(IV).  
*Acta Cryst.* **1996**, C52, 847-850
27. **Sobota P., Utko J., Szafert S., Janas Z., Głowiak T.**  
 Polynuclear aggregation of cobalt and manganese dichlorides. Synthesis, pro-  
 perties and structures of monomeric  $[\text{CoCl}_2(\text{tmen})]$ , ionic  
 $[\text{Co}_3(\mu_3\text{-Cl})_2(\mu\text{-Cl})_3(\text{tmen})_3][\text{BPh}_4]$ , polymeric  $[\text{MnCl}_2 \cdot \text{tmen}]$  and tetranuclear  
 $[\text{Mn}_4(\mu\text{-Cl})_6\text{Cl}_2(\text{tmen})_4]$  (tmen =  $\text{Me}_2\text{NCH}_2\text{CH}_2\text{NMe}_2$ ).  
*J. Chem. Soc., Dalton Trans.* **1996**, 3469-3473
28. **Sobota P., Utko J., Janas Z., Szafert S.**  
 New intermediates for the synthesis of alkene polymerization catalysts: the complex  
 $[\text{Mg}_4\{\mu_3, \eta\text{-OCH}_2\text{CH}(\text{CH}_2)_3\text{O}\}_2\{\mu, \eta\text{-OCH}_2\text{CH}(\text{CH}_2)_3\text{O}\}_4\text{Cl}_2]$ ; crystal structu-  
 re and properties.  
*Chem. Commun.* **1996**, 1923-1924

29. **Sobota P., Utko J., Szafert S.**  
 Synthesis and molecular structures of the magnesium and aluminium adducts of a niobium-oxo complex. X-ray crystal structures of  $[\{\text{NbOCl}_4(\text{THF})\}_2\text{Mg}(\text{THF})_4]$  and  $[\{\text{NbOCl}_4(\text{THF})\}_2\text{AlCl}(\text{THF})_3]$ .  
*Inorg. Chem.* **1997**, *36*, 2227-2229
30. **Sobota P., Utko J., Szafert S., Szczegot K.**  
 New 2-tetrahydrofurfuryloxotitanium(IV) intermediates for the synthesis of olefin polymerization catalysts.  
*J. Chem. Soc., Dalton Trans.* **1997**, 679-683
31. **Jerzykiewicz L.B., Utko J., Sobota P.**  
 $[(\text{Mg}_{0.5}\text{Mn}_{0.5})_4\{\mu_3, \eta^2\text{-thffo}\}_4(\text{EtOH})_4\text{Cl}_4] \cdot 0.5\text{EtOH}$ .  
*Acta Cryst.* **1997**, *C53*, 1393-1396
32. **Sobota P., Utko J., Brusilovets A.I., Jerzykiewicz L.B.**  
 Syntheses, properties and crystal structures of ionic  $[\text{Al}_2(\mu, \eta^2\text{-thffo})_2(\text{EtOH})_4\text{Cl}_2]\text{Cl}_2$ ,  $[\text{Al}_3(\mu, \eta^2\text{-thffo})_4\text{Cl}_4][\text{AlEtCl}_3]$  and tetranuclear  $[\text{Al}_4(\mu, \eta^2\text{-thffo})_4(\mu\text{-OEt})_2\text{Cl}_6]$  (thffo =  $\text{OCH}_2\text{CH}(\text{CH}_2)_3\text{O}$  compounds).  
*J. Organometal. Chem.* **1998**, *553*, 379-385
33. **Sobota P., Utko J., Jerzykiewicz L. B.**  
 Polynuclear aggregation of manganese dichloride. Syntheses, properties and structures of polymeric  $[\text{MnCl}_2(\text{THF})_{1.6}]_\infty$ , dimeric  $(\text{THF})_4\text{Mg}(\mu\text{-Cl})_2\text{MnCl}_2$ , and ionic  $[\text{Mg}(\text{H}_2\text{O})_2(\text{THF})_4][\text{Mg}(\text{H}_2\text{O})_4(\text{THF})_2[\text{MnCl}_4]_2] \cdot 2\text{THF}$  compounds.  
*Inorg. Chem.* **1998**, *37*, 3428-3431
34. **Sobota P., Utko J., Sztajnowska K., Jerzykiewicz L. B.**  
 Preparation and crystal structures of donor-functionalized 2,2'-oxydiethanol complexes of titanium, yttrium, magnesium and sodium.  
*New J. Chem.* **1998**, 851-855
35. **Janas Z., Jerzykiewicz L. B., Sobota P., Utko J.**  
 Synthesis and crystal structures of the heptamagnesium cationic and mixed magnesium(II)/nickel(II) molecular 2-tetrahydrofurfuroxo aggregates.  
*New J. Chem.* **1999**, 185-188
36. **Sobota P., Utko J., Sztajnowska K., Ejfler J., Jerzykiewicz L. B.**  
 Polynuclear magnesium and magnesium-titanium species. Syntheses and crystal structures of  $[\text{Mg}_4(\mu_3, \eta^2\text{-ddbfo})_2(\mu, \eta^2\text{-ddbfo})_2(\mu, \eta^1\text{-ddbfo})_2(\eta^1\text{-ddbfo})_2]$ ,  $[\text{Mg}_4(\mu_3\text{-OMe})_2(\mu, \eta^2\text{-ddbfo})_2(\mu, \eta^1\text{-ddbfo})_2(\eta^1\text{-ddbfo})_2(\text{CH}_3\text{OH})_5]$  and  $[\text{Mg}_4(\mu_3, \eta^2\text{-thffo})_2(\mu, \eta^2\text{-thffo})_2(\mu, \eta^1\text{-thffo})_2\{\mu\text{-OTi}(\text{DIPP})_3\}_2]$  aggregates.  
*Inorg. Chem.* **2000**, *39*, 235-239

37. **Sobota P., Utko J., Ejfler J., Jerzykiewicz L. B.**

Syntheses and molecular structures of  $[\text{Mg}_4(\text{THFFO})_6(\text{OSiPH}_3)_2]$  and

$[\text{Al}_3\text{Mg}(\mu\text{-O})(\text{THFFO})_3(\text{Me})_6]$  relevant to Ziegler-Natta catalyst intermediates

(THFFO = 2-Tetrahydrofurfuroxide).

*Organometallics* **2000**, *19*, 4929-4931