Instytut Niskich Temperatur
i Badań Strukturalnych PAN

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   **Thermal Conductivity Anomaly of Aluminium at 3.4 K.**

   *Acta Phys. Pol.* A **40** 1 (1971) 117–8.

2. **M. Bałuka**, **B. Jeżowska-Trzebiatowska**, L.Natkaniec,

   **Związki kompleksowe renu (V) – Struktura i własności magnetyczne.** [Complex Compounds of Rhenium(V), Their Structure and Magnetic Properties.]

   *Pr.Nauk. Inst.Chem.Nieorg. PWrocł.* Nr 14 [???, Nr 3] (1971) 66–71 [in Polish].

3. **Z. Biegański**,

   **Low Temperature Specific Heats and Related Thermodynamical Functions of Lanthanum Dihydride $LaH_{2.00}$. Crystal Field Effects in Cerium Dihydride $CeH_{2.00}$.**

   *Bull. Acad. Polon. Sci.: Sér. sci. chim.* **19** 9 (1971) 581–6.

4. **Z. Biegański**,

   **Low Temperature Specific Heats and Related Thermodynamical Functions of Neodymium Dihydride $NdH_{2.00}$. Crystal Field Effects.**

   *phys. stat. sol.* (b) **47** 1 (1971) 93–7. [DOI]

5. **K. Durczewski**,

   **Field-Dependent Phase Transitions of Uniaxial Ferromagnets.**

   *Acta Phys. Pol.* A **40** 4 (1971) 505–16.

6. **Z.M. Galasiewicz**,

   **Microscopic Theory of Dilute $^3$He–He II Solutions. I. Derivation of Hydrodynamic Equations without Viscous Terms.**

   *Acta Phys. Pol.* A **40** 2 (1971) 145–56.

7. **Z.M. Galasiewicz**,

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   *Acta Phys. Pol.* A **40** 2 (1971) 157–64.

8. **Z.M. Galasiewicz**,

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   *Phys. Lett.* A **34** 1 (1971) 7–8. [DOI]

9. **Z. Galasiewicz**,

   **Teoria cieczy Fermiego.** [Theory of a Fermi Liquid.]

   *Post. Fizyki* **22** 5 (1971) 521–42 [in Polish].

   *Szkoła Letnia: „Teoria magnetyzmu metali" [Pol. Acad. Sci., Summ.Sch.of Theory of Magnetism of Metals]* ZAKOPANE, PL, 1970.08 31 –.09 11

10. **Z. Henkie**, Cz.Bazan,

    **Electrical Properties of $U_3P_4$ and $U_3As_4$ Single Crystals.**

    *phys. stat. sol.* (a) **5** 1 (1971) 259–68. [DOI]

11. **R. Horyń**, **M. Dryś**,

    **Growth of Single Crystals of Intermetallic Compounds of Niobium with Germanium and Gallium by Chemical Transport Method.**

    *Krist. Technik* **6** 6 (1971) K85–92. [DOI]

12. **R. Horyń**, **R. Kubiak**,

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    *Bull. Acad. Polon. Sci.: Sér. sci. chim.* **19** 3 (1971) 185–9.

13. **B. Jeżowska-Trzebiatowska**, **A. Antonów**, H.Kozłowski,

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    *Bull. Acad. Polon. Sci.: Sér. sci. chim.* **19** 1 (1971) 39–43.

14. **B. Jeżowska-Trzebiatowska**, **J. Hanuza**, **M. Bałuka**,

    **Spectroscopic Characteristics of Metal–Oxygen Bonding in Some Rare Metals (Rhenium, Osmium, Technetium, Ruthenium).**

    *Pr.Nauk. Inst.Chem.Nieorg. PWroc.* Nr 14 [*Konf.* Nr 3] (1971) 47–??.
    *13th Int.Conf on Coordination Chemistry (ICCC-13)* CRACOW & ZAKOPANE, PL, 1970.09 17–22

15. **B. Jeżowska-Trzebiatowska**, **J. Hanuza**, **M. Bałuka**,

    **Force Constants and Vibrational Frequencies of the of the Rhenium–Oxygen Bonds in the Infra-Red Region (200–4000 $cm^{-1}$).**

    *Spectrochim. Acta* A **27** 9 (1971) 1753–72. [DOI]

16. **B. Jeżowska-Trzebiatowska**, E.Kalecińska, **J. Kaleciński**,

    **On the Reactivity of Pentacyanonitrosyl Ions of Transition Elements towards Hydrated Electrons and Hydroxyl Radicals.**

    *Bull. Acad. Polon. Sci.: Sér. sci. chim.* **19** 4 (1971) 265–75.

17. **J. Kalicińska-Karut**, Z.Pruchnik, **K. Łukaszewicz**,

    **The Stoichiometric Formula nad Space Group of Cadmium Phosphide $Cd_7P_{10}$.**

    *Roczn. Chem.* **45** 11 (1971) 1991–2.

18. **J. Klamut**,

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    *Acta Phys. Pol.* A **39** 3 (1971) 273–86. For Pt. I see: *ibid.*, **38** 6 (1970) 873–84.

19. **B. Kondraciuk**, **J. Rafałowicz**, **B. Sujak**,

    **Thermal Conductivity of Commercially Pure Domestic Copper at Room, Liquid Nitrogen and Liquid Helium Temperature Range.**

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20. **G. Kozłowski**,

    **Influence of the Field Direction on the Magnetic Phases of a Uniaxial Two–Sublattice Antiferromagnet. I. Ground State Energies, Critical Field and Magnetization.**

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21. **G. Kozłowski**,

    **The Stability of the Field-Induced Magnetic Phases of a Uniaxial Antiferromagnet at Zero Temperature.**

    *Phys. Lett.* A **35** 5 (1971) 359–60. [DOI]

22. **G. Kozłowski**, **L. Biegała**, S.Krzemiński,

    **The Approximate Ground State of Two-Sublattice Uniaxial Ferri– and Antiferrimagnets with Transversal Magnetic Field.**

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23. **H. Kubicka**,

    ***Para–ortho* -Hydrogen Conversion and Adsorption of Hydrogen on Rhenium Powder.**

    *J. Catal.* **20** 2 (1971) 163–71. [DOI]

24. **J. Kupka**, **E. Mugeński**,

    **Spektrofotometr o dużej czułości do badań widm luminescencyjnych w zakresie fal widzialnych i bliskiej podczerwieni.** [A High Sensitivity Spectro-photometer for Luminescence Measurements in the Range of Visible and Near-Infrared Rays.]

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25. J.Leciejewicz, **R. Troć**, A.Murasik, T.Palewski,

    **Magnetic Phase Transitions in the UAs–USe System.**

    *phys. stat. sol.* (b) **48** 1 (1971) 445–52. [DOI]

26. J.Leciejewicz, A.Murasik, **R. Troć**, T.Palewski,

    **The Influence of Sulphur Substitution on the Magnetic Properties of Uranium Monoarsenide.**

    *phys. stat. sol.* (b) **46** 1 (1971) 391–5. [DOI]

27. **B. Makiej**,

    **O badaniach mechanizmu wystąpienia nadprzewodnictwa.** [On the Mechanism of Superconductivity Occurrence.]

    *Post. Fizyki* **22** 1 (1971) 39–48 [in Polish].
    *XXI Zj. Fizyków Polskich [21st Congr.of Polish Physicists]* POZNAŃ, PL, 1969.09 08–13

28. **W. Mleczko**, **E. Bodio**,

    **Wielofunkcyjny uchwyt elektrod z komorą do pracy w atmosferze gazu obojętnego.** [Multipurpose Electrode Holder with a Chamber for Work in an Inert Gas Atmosphere.]

    *Chem. Analit.* **16** ? (1971) 1131–2 [in Polish].

29. **J. Mulak**, **A. Misiuk**,

    **Crystal Field Interpretation of the Magnetic Properties of Some Uranium Compounds of $AuCu_3$-Type Structure.**

    *Bull. Acad. Polon. Sci.: Sér. sci. chim.* **19** 3 (1971) 207–13.

30. A.Pękalski, **W.J. Ziętek**,

    **The Field-Dependent Magnetic Phases of a Uniaxial Two-Sublattice Antiferromagnet of Néel Type. I. Energy Spectra, Ground States and Critical Fields.**

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31. H.Pfeiffer, **J. Ulner**,

    **Pseudo-Dipolar and Quadrupolar Spin Coupling and Magnetically Preferred Directions in Tetragonal Ferromagnets.**

    *Acta Phys. Pol.* A **39** 6 (1971) 703–14.

32. **D. Pietraszko**, **K. Łukaszewicz**,

    **The Crystal Structure of Uranium Diphosphide $UP_2$.**

    *Bull. Acad. Polon. Sci.: Sér. sci. chim.* **19** 4 (1971) 237–42.

33. **D. Pietraszko**, **K. Łukaszewicz**,

    **X-ray Investigations of the Phase Transition of the Uranium Diphosphide $UP_2$.**

    *Roczn. Chem.* **45** 6 (1971) 1105–7.

34. **J. Rafałowicz**,

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35. **J. Rafałowicz**,

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*Acta Phys. Pol.* A **40**$_6$ (1971) 891–2.

36. **J. Rafałowicz**,

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*Chłodnictwo* **6**$_7$ (1971) 1–3 [in Polish].

37. **J. Rafałowicz**,

**Metoda wyznaczania promieniowego rozkładu temperatury w cylindrze przy pomocy dwu termometrów. II.** [On a Method of Determining the Radial Temperature Distribution in a Cylinder by Means of Two Thermometers. II.]

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38. **J. Rafałowicz**,

**Wybrane zagadnienia termometrii niskotemperaturowej, część I: Etapy rozwoju skal temperaturowych.** [Selected Problems of Low Temperature Thermometry, Part I: The Stages of the Development of the Temperature Scales.]

*Chłodnictwo* **6**$_9$ (1971) 4–6 [in Polish].

39. **J. Rafałowicz**,

**Wybrane zagadnienia termometrii niskotemperaturowej, część II.** [Selected Problems of Low Temperature Thermometry, Part II.]

*Chłodnictwo* **6**$_{10}$ (1971) 5–7 [in Polish].

40. **J. Rafałowicz**, **K. Balcerek**, **B. Sujak**, E.Pega,

**The Measurements of Temperature Dependence of Thermal Conductivity of Silver for Different Fixed Values of Heat Flux Density. (Liquid Helium Temperature Range.)**

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41. **J. Rafałowicz**, **K. Balcerek**, **B. Sujak**, E.Pega, **L. Lipiński**,

**The Dependence of the Value of the Heat Conductivity Anomaly of Aluminium on Heat Flux Density in the Liquid Helium Temperature Range.**

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42. **J. Rafałowicz**, **B. Sujak**,

**On the Graphical Determination of the Temperature Dependence of the Thermal Conductivity of Pure Metals in the Low Temperature Maximum of the Conductivity for the Case of Aluminium.**

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43. **W. Romanowski**,

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44. **W. Romanowski**, **D. Potoczna-Petru**,

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*Thin Solid Films* **8**$_1$ (1971) 35–40. [DOI]

45. **W. Romanowski, B. Woźniakowski,**

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*Roczn. Chem.* **45** 9 (1971) 1549–57.

46. **H. Stachowiak,**

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47. **B. Staliński,**

**JRP w badaniach ruchów cząsteczkowych w ciałach stałych.** [NMR Studies of Molecular Motions in Solids.]

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*IV Og.-pol.Konf. „Radiospektroskopia i elektronika kwantowa" [4th Polish Conf.on Radio-spectroscopy and Quantum Electronics]* POZNAŃ, PL, 1970.04 06–09

48. **B. Staliński, H. Drulis,**

**Electron Paramagnetic Resonance of $Nd^{3+}$ Ions in Lanthanum Hydride Matrices.**

*Bull. Acad. Polon. Sci.: Sér. sci. chim.* **19** 11/12 (1971) 739–42.

49. **M. Suszyńska,**

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*phys. stat. sol.* (a) **6** 1 (1971) 87–90. [DOI]

50. **M. Suszyńska,**

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*Post. Fizyki* **22** 6 (1971) 659–78 [in Polish].

51. **M. Suszyńska, J. Poźniak,**

**Effect of Ionizing Radiation and $Sr^{2+}$ Concentration on Hardening of KCl Crystals.** (Part II)

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52. **J. Sznajd,**

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53. **P. Tekiel,**

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*Ж. Эксп. Теор. Физ.* **61** 4 (1971) 1691–9 [in Russian]. Engl.in: *Sov. Phys.- JETP* **34** 4 (1972) 902–9.

54. **R. Troć, J. Mulak, W. Suski,**

**High-Temperature Susceptibility of Uranium Compounds with $Th_3P_4$-Type Crystal Structure.**

*phys. stat. sol.* (b) **43** 1 (1971) 147–56. [DOI]

55. **R. Troć, W. Trzebiatowski,** K.Piprek,

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*Bull. Acad. Polon. Sci.: Sér. sci. chim.* **19** 6/7 (1971) 427–32.

56. **W. Trzebiatowski,**

**O strukturze i własnościach niektórych związkow międzymetalicznych pierwiastków rzadkich.** [Structure and Properties of Some Intermetallic Compounds of Rare Elements.]

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57. **W. Trzebiatowski, Z. Henkie,** К.П.Белов, С.А.Дмитриевский, Р.З.Левитин, Ю.Ф.Попов,

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*Ж. Эксп. Теор. Физ.* **61** 4 (1971) 1522–5 [in Russian]. Engl. in: *Sov. Phys.- JETP* **34** 4 (1972) 811–5.

58. **W. Trzebiatowski**, T.Palewski,

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*Bull. Acad. Polon. Sci.: Sér. sci. chim.* **19** 2 (1971) 83–9.

59. **J. Ulner**,

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60. **T. Zakrzewski**, Z.Dziuba, J.Makowski,

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## Publications in Conference Materials

61. **J. Kupka**, **E. Mugeński**, **B. Jeżowska-Trzebiatowska**,

– original title not known – [A Phenomenological Determination of Relaxation Constant in Liquid Laser Media.]

In: *Proc. International Conference on Lasers and Their Applications*, (Dresden: ??? 1971) pp. 1423–30 [in German].

*International Conference on Lasers and Their Applications* DRESDEN, DD, 1970.06 10–17

62. **J. Mazur**, **W. Zacharko**, **Cz. Sułkowski**,

**Effect of Small Concentrations of Impurities on Critical Temperature of Thallium.**

In: *Proc. of International Congress of Refrigeration 1971*, (Washington: IIR/IIF, 1971) pap. nr 1.23 (4 pp.)

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63. **B. Staliński**, **O.J. Żogał**,

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In: *Mater. III Og.-pol. Semin.nt. Zastosowań Magnetycznego Rezonansu Jądrowego*, ed. by J.W. Hennel (Kraków: Instytut Fizyki Jądrowej, 1971) pp. 27–8 [in Polish].

*III Og.-pol.Semin.nt. Zastosowań Magnetycznego Rezonansu Jądrowego [3rd Polish Semin.on Applications of NMR]* CRACOW, PL, 1970.12 01–02

64. **R. Troć**, **W. Suski**, Cz.Bazan,

**Magnetic Properties of Uranium Compounds with $Th_3P_4$-Type Crystal Structure.**

In: *Rare Earths and Actinides 2.* (London, UK: Institute of Physics, 1971) pp. 172–5.

*[2nd Int.]Conf.on Rare Earths & Actinides,* DURHAM, England, UK, 1971.07 05–07

65. **O.J. Żogał**, **H. Drulis**, **B. Staliński**,

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In: *Magnetic Resonance and Related Phenomena. [16.Congr. Ampére]* ed. by I.Ursu (Bucharest: Publ.House of the Acad.Sci.of Roumania, 1971) pp. 1065–6.

*16th Congr.* Ampére *on Magnetic Resonance & Related Phenomena,* BUCHAREST, RO, 1970.09 01–05

# LISTA PREZENTACJI KONFERENCYJNYCH
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2. J.Bara, O.I.Bodak, K.Królas, K.Ruebenbauer, **W. Suski**,

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   *Int.Conf.on Mössbauer Spectroscopy* Dresden, DD, 1971.?? ??–??

3. O.Bodak, E.Hładyszewski, **K. Łukaszewicz**, **J. Stępień**,

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5. **J.Z. Damm**, **M. Suszyńska**, **J. Kowalczyk**,

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   *Int.Conf.on Color Centers in Crystals,* Reading, MA, US, 1971.?? ??–??

6. J.Dzięgielewski, **J. Kaleciński**, **B. Jeżowska-Trzebiatowska**,

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9. **A. Grohman**, **B. Sujak**,

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10. **R. Horyń**, **R. Kubiak**,

    **Struktura krystaliczna $Nb_{10}Ge_7$ .** [Crystal Structure of $Nb_{10}Ge_7$ .] (C)

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12. **J. Kaleciński**,

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*II Zj.Pol.Tow. Badań Radiacyjnych [2nd Meet.of Polish Society for Radiative Research]* Poznań, PL, 1971.04 22–24

13. **B. Kondraciuk**, **J. Rafałowicz**,

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14. **B. Kondraciuk**, **J. Rafałowicz**,

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*II Og.-pol.Semin. Kriogeniki [2nd Polish Semin.on Cryogenics]* Wrocław, PL, 1971.09 09–11

15. **J. Kowalczyk**,

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*II Zj.Pol.Tow. Badań Radiacyjnych [2nd Meet.of Polish Society for Radiative Research]* Poznań, PL, 1971.04 22–24

16. **R. Kubiak**, **R. Horyń**, **K. Łukaszewicz**,

**Badania rentgenograficzne struktury $NbSi_2$, $NbGe_2$ i $TaGe_2$ .** [X-ray Investigation of $NbSi_2$, $NbGe_2$, and $TaGe_2$ Structure.] (C)

*XVI Konwers. Rentgenograficzne [16th Polish Crystallographic Meeting]* Wrocław, PL, 1971.06 24–25

17. J.Leciejewicz, A.Murasik, **R. Troć**, T.Palewski,

**Wpływ podstawienia fosforem, siarką i selenem na magnetyczne przemiany fazowe w monoarsenku uranu.** [Influence of [As] Substitution by Phosphorus, Sulfur, and Selenium on Magnetic Phase Transitions in Uranium Monoarsenide.] (C)

*XVI Konwers. Rentgenograficzne [16th Polish Crystallographic Meeting]* Wrocław, PL, 1971.06 24–25

18. **L. Lipiński**, **C. Marucha**, **B. Sujak**,

**Równania kalibracyjne termometrów półprzewodnikowych.** [Calibration Equations for Semiconductor Thermometers.] (C)

*II Og.-pol.Semin. Kriogeniki [2nd Polish Semin.on Cryogenics]* Wrocław, PL, 1971.09 09–11

19. **J. Mazur**, **W. Zacharko**, **Cz. Sułkowski**,

**Effect of Small Concentrations of Impurities on the Critical Temperature of Thallium.** (C)

*13th Int.Congr.of Refrigeration,* Washington, DC, US, 1971.08 27 –.09 03

20. **J. Nawojska**,

**Radioliza acetyloacetonianu chromu w roztworach czterochlorku węgla.** [Radiolysis of Chromium Acetyloacetate in Tetrachloromethane Solutions.] (C)

*II Zj. Pol.Tow.Badań Radiacyjnych [2nd Meet.of Polish Society for Radiative Research]* Poznań, PL, 1971.04 22–24

21. **J. Rafałowicz**,

**Transprt ciepła podstawowym zagadnieniem kriotechniki.** [Heat Transport – Fundamental Problem of Cryotechnology.] (L)

*II Og.-pol.Semin. Kriogeniki [2nd Polish Semin.on Cryogenics]* Wrocław, PL, 1971.09 09–11

22. **B. Sujak**,

**Zagadnienie cieczy kriogenicznych w Polsce.** [Problem of Cryogenic Liquids in Poland.] (L)

*II Og.-pol.Semin. Kriogeniki [2nd Polish Semin.on Cryogenics]* Wrocław, PL, 1971.09 09–11

23. **B. Sujak**,

**Perspektywy zastosowania mikrochłodziarek.** [Perspectives for Microcoolers Applications.] (L)

*II Og.-pol.Semin. Kriogeniki [2nd Polish Semin.on Cryogenics]* Wrocław, PL, 1971.09 09–11

24. **J. Szymaszek**,

**Efekt rozmiarowy aluminium w niskich temperaturach.** [Low-Temperature Size Effect in Aluminium.] (L)

*II Symp.nt. Zastosowania niskich temperatur w elektrotechnice [2nd Pol.Symp.on Application of Low Temperatures in Electrotechnics]* Kępno, PL, 1971.10 29–30

25. **R. Troć**, **W. Suski**, Cz.Bazan,

**Magnetic Properties of Uranium Compounds with $Th_3P_4$-Type Crystal Structure.** (C)

*[1st] Int.Conf.on Rare Earths and Actinides,* Durham, Engl, UK, 1971.07 05–07

26. **E. Trojnar**,

**Najnowsze materiały nadprzewodnikowe.** [The Newest Superconducting Materials.] (L)

*II Symp.nt. Zastosowania niskich temperatur w elektrotechnice [2nd Pol.Symp.on Application of Low Temperatures in Electrotechnics]* Kępno, PL, 1971.10 29–30

27. **W. Trzebiatowski**, A.Czernichowski,

**Badania nad rozkładem termicznym $FeTiO_3$ w plazmie atomowej.** [Investigation of Thermal Decomposition of $FeTiO_3$ in Atomic Plasma.] (C)

*I Og.-pol.Symp. Chemii Plazmy [1st Natl.Symp.on the Chemistry of Plasma]* Warsaw, PL, 1971.09 14–15

28. **F. Warkusz**, **K. Łukaszewicz**,

**Porównanie struktury kryształów TGFB w fazach ferro– i paraelektrycznej.** [Comparison of TGFB Crystal Structure in Ferro- and Paraelectric Phase.] (C)

*XVI Konwers. Rentgenograficzne [16th Polish Crystallographic Meeting]* Wrocław, PL, 1971.06 24–25

29. **T. Zakrzewski**, **K. Balcerek**, **H. Misiorek**,

**Pojemnik stalowy na ciekły azot o pojemności 100 l.** [Steel Vessel of 100 l Capacity for Liquid Nitrogen.] (C)

*II Og.-pol.Semin. Kriogeniki [2nd Polish Semin.on Cryogenics]* Wrocław, PL, 1971.09 09–11

30. **T. Zakrzewski**, **H. Misiorek**,

**Pojemnik aluminiowy na ciekły azot.** [Aluminium Vessel for Liquid Nitrogen.] (C)

*II Og.-pol.Semin. Kriogeniki [2nd Polish Semin.on Cryogenics]* Wrocław, PL, 1971.09 09–11

31. **T. Zakrzewski**, **B. Sujak**,

**Laboratoryjny, przenośny układ odzysku helu gazowego.** [Portable Laboratory System for Gaseous Helium Recovery.] (C)

*II Og.-pol.Semin. Kriogeniki [2nd Polish Semin.on Cryogenics]* Wrocław, PL, 1971.09 09–11