Instytut Niskich Temperatur
i Badań Strukturalnych PAN

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LISTA PUBLIKACJI 1972
LIST of PUBLICATIONS

KSIĄŻKI, MONOGRAFIE i ARTYKUŁY PRZEGLĄDOWE
Books, Monographs & Reviews

1. **Z. Henkie**,

   Гальваномагнитные и термоэлектрические свойства U_3P_4. [Galvanomagnetic and Thermoelectric Properties of U_3P_4.]

   In: *Химическая связь в полупроводниках и металлах [Chemical Bond in Semiconductors and Metals]* ed. by *** (Min'sk: Nauka i Tekhnika, 1972) pp. 246–52 [in Russian].

ARTYKUŁY W CZASOPISMACH NAUKOWYCH
Articles in Scientific Journals

2. А.Ф.Андреев, **P. Tekiel**,

   К теории поверхностного «смешанного» состояния сверхпроводников первого рода. [Theory of a Surface "Mixed" State in Superconductors of the First Kind.]

   Ж. Эксп. Теор. Физ. **62** 4 (1972) 1540–7 [in Russian]. Engl. in: *Sov. Phys.- JETP* **35** 4 (1972) 807–10.

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

   Infrared and Electronic Spectra of the Technetium Oxy-Compounds.

   Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 3 (1972) 271–8.

4. C.Bazan, **A. Zygmunt**,

   Magnetic Properties of UAsY-Type Compounds (Y = S, Se, Te) in Ordered State.

   phys. stat. sol. (a) **12** 2 (1972) 649–53. [DOI]

5. **L. Biegała**,

   Spin Wave Theory of Two-Sublattice-Uniaxial Heisenberg Ferromagnet with External Magnetic Field. I. Energy Spectra, Stable Magnetic Phases and Critical Fields.

   Acta Phys. Pol. A **42** 6 (1972) 675–87. For II see: *ibid.*, pp. 689–98 (foll. paper)

6. **L. Biegała**,

   Spin Wave Theory of Two-Sublattice-Uniaxial Heisenberg Ferromagnet with External Magnetic Field. II. Thermodynamical Properties.

   Acta Phys. Pol. A **42** 6 (1972) 689–98. For I see: *ibid.*, pp. 675–87 (prec. paper)

7. **L. Biegała**, **G. Kozłowski**,

   Effective Formula for the Spin-Wave-Vacuum Energy Correction in Magnetic Crystals with Equivalent Sublattice.

   Phys. Lett. A **40** 2 (1971) 185–6. [DOI]

8. **Z. Biegański**,

   Low Temperature Specific Heats of the Dihydrides of the Light Rare Earth Metals.

   Ber. Bunsenges. phys. Chem. **76** 8 (1972) 848–**.

   Int.Conf.on Hydrogen in Metals, JÜLICH, DE, 1972.03 20–24

9. **Z. Biegański**,

   Low Temperature Specific Heats of the Dihydrides of the Light Rare Earth Metals.

   Ber. Bunsenges. phys. Chem. **76** 11 (1972) 1183–7.

10. **Z. Biegański, J. Opyrchał,**

Low Temperature Specific Heats of Dysprosium Dihydride DyH_2.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 8 (1972) 775–82.

11. **E. Bodio, B. Sujak,**

On the Parameters of Single-Stage Miniature Liquefiers of the Hampson Type for Gases of the A Group.

Acta Phys. Pol. A **42** 5 (1972) 503–**.

12. **E. Bodio, B. Sujak,**

Krajowe mikrogłowice kriogeniczne oparte na zjawisku Joule'a–Thomsona dla temperatur od 80 do 100 K. [Polish Cryogenic Microheads Based on the Joule–Thomson Effect for Temperatures 80–100 K.]

Chłodnictwo **7** 10 (1972) 4–7 [in Polish].

13. **A. Bohdziewicz, J. Szymaszek, B. Makiej,**

Critical Magnetic Field of Superconducting Cylindrical Layers of Indium.

Acta Phys. Pol. A **42** 4 (1972) 419–22.

14. M.Debes, **J. Kowalczyk,**

Density, Colorability and Conductivity of Sr^{2+}-Doped KCl Crystals.

Krist. Technik **7** 11 (1972) 1291–5. [DOI]

15. Z.Durski, **T. Gibiński,**

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Roczn. Chem. **46** 11 (1972) 1945–51 [in Polish].

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

On the Yield of Nitrate Ions in γ-Radiolysis of Uranyl Nitrate and Calcium Nitrate in Trialkyl Phosphates and *n*-Butanol.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 3 (1972) 285–90.

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

The Nature and Spectroscopic Character of the Metal–Oxygen Bonding of Some Heavy Metals. II. The Length and Bond Order of the Metal–Oxygen Bonding in Oxy-Compounds of Rhenium, Technetium, Osmium and Ruthenium on the Basis of Infra-Red Spectroscopy.

Acta Phys. Pol. A **42** 5 (1972) 537–44.
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18. **J. Hanuza, M. Bałuka, B. Jeżowska-Trzebiatowska,**

The Nature and Spectroscopic Character of the Metal-Oxygen Bonding of Some Heavy Metals. III. Metal–Oxygen π-Bonding and Its Influence on the Structure of Oxy-Complexes on the Basis of Infra-Red Spectroscopy.

Acta Phys. Pol. A **42** 5 (1972) 545–51. For II see: *ibid.*, pp. 537–44 (prec. paper)

19. **J. Hanuza, B. Jeżowska-Trzebiatowska, K. Łukaszewicz,**

Normal Coordinate Analysis of M_2O_7 Systems with C_{2v} Symmetry (Pyrophosphates and -arsenates). Intramolecular Forces in a Urey–Bradley–Shimanouchi Force Field.
[$P_2O_7^{4-}$ and $As_2O_7^{4-}$]

J. Mol. Struct. **13** 3 (1972) 391–403. [DOI]

20. **Z. Henkie,**

Galvanomagnetic and Thermoelectric Properties of U_3P_4 and U_3As_4.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 6 (1972) 531–8.

21. **Z. Henkie, Z. Kletowski,**

Transversal Electrical Properties of the Uniaxial Antiferromagnets UAs_2 and USb_2.

Acta Phys. Pol. A **42** 4 (1972) 405–11.

22. **W. Jaszczuk**, **E. Trojnar**,

Wykorzystanie zjawiska Josephsona w nadprzewodnikach do pomiaru bardzo słabych napięć. [The Application of the Josephson Effect in Superconductors for Measurement of Very Low Voltages.]

Chłodnictwo **7**$_7$ (1972) 10–11 [in Polish].

23. **B. Jeżowska-Trzebiatowska**, M.Ostern, **J. Hanuza**, J.Ziółkowski,

The Nature of Bonding and Structure of Pentacyanonitrosylcobaltate(III) on the Basis of Infra-Red and Electronic Spectroscopy.

Inorg. Chim. Acta **6** (1972) 141–4. [DOI]

24. **J. Kaleciński**,

Photochemical Decomposition of Molten Nitrates of Alkali Metal.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20**$_3$ (1972) 279–84.

25. **J. Kaleciński**,

Gamma Radiolysis of Ionic Liquids. I. The Decomposition Mechanism of Molten Alkali Metals and Silver Nitrates.

Int. J. Radiat. Phys. Chem. **4**$_2$ (1972) 171–9. [DOI]

26. **J. Kaleciński**,

Gamma Radiolysis of Ionic Liquids. II. The Free Volume Factor.

Int. J. Radiat. Phys. Chem. **4**$_2$ (1972) 181–8. [DOI]

27. **J. Kaleciński**, **B. Jeżowska-Trzebiatowska**,

Reduction of Nitrates by the Irradiation of Alkaline Hydroxide and Nitrate Mixtures in Molten and Solid States.

Radiochem. Radioanal. Lett. **11**$_5$ (1972) 281–8.

28. Yu.F.Komnik, E.I.Buckhshtab, Yu.V.Nikitin, F.I.Chuprinin, **C. Sułkowski**,

Space Quantization in Thin Tin Films.

Thin Solid Films **11**$_1$ (1972) 43–51. [DOI]

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

Thermal Conductivity of High-Pressure and Low-Pressure Polyethylene in the Temperature Range from 3 to 300 K.

Acta Phys. Pol. A **41**$_2$ (1972) 141–7.

30. **G. Kozłowski**, **W.J. Ziętek**, K.Ziętak,

Theory of the Thickness-Dependence of the Domain Width in Regular Layer-Like Domain Structures of Uniaxial Ferromagnets.

Acta Phys. Pol. A **42**$_1$ (1972) 87–106.

31. S.Krzemiński, **W.J. Ziętek**,

Spin Wave Theory of the Field-Induced Magnetic Phases of a Uniaxial Two-Sublattice Néel-Type Antiferromagnet. I. Longitudinal Magnetic Field.

Acta Phys. Pol. A **41**$_3$ (1972) 299–315. For II see: *ibid.*, pp. 317–26 (foll. paper) by S. K.

32. **R. Kubiak**, **R. Horyń**, H.Broda, K.Łukaszewicz,

Refinement of the Crystal Structure of $NbSi_2$, $NdGe_2$ and $TaGe_2$.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20**$_5$ (1972) 429–36.

33. **J. Kupka**, **E. Łukowiak**, **B. Jeżowska-Trzebiatowska**,

Phosphorescence Spectra of Thiocyanate Complexes of Chromium(III) in DMSO.

Spectrochim. Acta A **28**$_{10}$ (1972) 1987–93. [DOI]

34. J.Leciejewicz, **A. Misiuk**,

Magnetic Structure of UPb_3.

phys. stat. sol. (a) **13**$_1$ (1972) K79–81. [DOI]

35. J.Leciejewicz, **A. Zygmunt**,

Neutron-Diffraction Study of UAsSe and USbSe.

phys. stat. sol. (a) **13** 2 (1972) 657–60. [DOI]

36. **B. Makiej**,

Momentum Transfer in Fraunhofer Diffraction of Light.

Acta Phys. Pol. A **42** 3 (1972) 303–6.

37. **A. Misiuk**, **J. Mulak**, **A. Czopnik**,

Low Temperature Magnetic Properties of Some Uranium Compounds of $AuCu_3$–Type Structure.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 5 (1972) 459–61.

38. **A. Misiuk**, **J. Mulak**, **A. Czopnik**,

Magnetic Properties of UGa_3, UIn_3 and UTl_3. Discussion in Terms of the Paramagnetic Susceptibility Maximum Model.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 9 (1972) 891–6.

39. **A. Misiuk**, **J. Mulak**, **A. Czopnik**, **W. Trzebiatowski**,

Magnetic Properties of Some Uranium Compounds of AlB_2 Type.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 4 (1972) 337–41.

40. **J. Mulak**,

Maximum of the Paramagnetic Susceptibility and Its Occurence in Uranium(IV) Compounds.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 9 (1972) 883–9.

41. **J. Mulak**, **A. Czopnik**,

Splitting of the $^3H_4$ Term of U^{4+} Ion in a Ligand Field of Archimedean Antiprism Symmetry – Magnetic Susceptibility of $U(SO_4)_2 \cdot 4H_2O$ and $U(CH_3COCHCOCH_3)_4$.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 3 (1972) 209–16.

42. **J. Mulak**, **Z. Żolnierek**,

Ground State of the U^{+5} Ion in $CsUF_6$ and Its Paramagnetic Susceptibility.

Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 11/12 (1972) 1081–8.

43. T.Palewski, **W. Suski**, T.Mydlarz,

Magnetic Properties of UAs–USe Alloys in a Magnetic Field up to 80 kOe.

Int. J. Magn. **3** 4 (1972) 269–72.

44. **J. Rafałowicz**,

On Phenomenological Definition of Mean Heat Conductivity for Nonhomogeneous Media. [I.]

Acta Phys. Pol. A **41** 2 (1972) 237–9.

45. **J. Rafałowicz**,

On Phenomenological Definitions of Mean Heat Conductivity for Nonhomogeneous Media. [II.]

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46. **J. Rafałowicz**,

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Chłodnictwo **7** 1 (1972) 5–8 [in Polish].

47. **J. Rafałowicz**,

Wybrane zagadnienia termometrii niskotemperaturowej. Techniczne termometry gazowe. [Selected Problems of Low Temperature Thermometry. Technical Gas Thermometers.

Chłodnictwo **7** 7 (1972) 12–14 [in Polish].

48. **H. Stachowiak**,
Selected Problems in the Theory of Positron Annihilation in Metals.
Math. Phys. Astr. Nr * (1972) 81–116 [Acta Univ.Wratisl. Nr 181].
9th Wint.Sch.of Theoretical Physics, KARPACZ, PL, 1972.02 ** –.03 **

49. **H. Stachowiak**,
Remarks on Screening of Positive Particles in an Electron Gas.
phys. stat. sol. (b) **52** 1 (1972) 313–22. [DOI]

50. **B. Staliński**,
Structural Problems of Transition Metal Hydrides.
Ber. Bunsenges. phys. Chem. **76** 8 (1972) 724–32.
Int.Conf.on Hydrogen in Metals, JÜLICH, DE, 1972.03 20–24

51. **B. Staliński**, **Z. Biegański**,
Instalacja do skraplania wodoru o wydajności 4 l/h. [Hydrogen Liquefying Plant of 4 l/h Capacity.]
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52. **J. Stępień**, J.Auleytner, **K. Łukaszewicz**,
X-ray Examination of the Real Structure of γ-Irradiated $NaClO_3$ Single Crystals.
phys. stat. sol. (a) **10** 2 (1972) 631–8. [DOI]

53. **J.A. Stępień**, **K. Łukaszewicz**, E.Hladyshevsky, O.Bodak,
Crystalline Structure of the Intermetallic Compound $Ce_3Ni_2Si_8$.
Bull. Acad. Polon. Sci.: sér.sci.chim. **20** 11/12 (1972) 1029–36.

54. R.Straubel, **W.J. Ziętek**,
Theory of the Transversal Shifting of Interacting Bloch Walls in Magnetic Films.
phys. stat. sol. (a) **12** 2 (1972) 363–72. [DOI]

55. R.Straubel, **W.J. Ziętek**,
Exact Formula for the Domain-Width-Dependence of the Bloch Wall's Magnetic Moment in Uniaxial Ferromagnets.
Phys. Lett. A **40** 2 (1972) 115–16. [DOI]

56. **C. Sułkowski**, **J. Mazur**, **W. Zacharko**,
Effect of Small Concentrations of Impurities on the Critical Temperature of Thallium.
Acta Phys. Pol. A **41** 4 (1972) 483–5.

57. **C. Sułkowski**, **J. Szymaszek**, **B. Makiej**, **M. Ciszek**,
Destruction of Superconductivity in Lead by Current.
Acta Phys. Pol. A **41** 6 (1972) 779–81.

58. **W. Suski**,
Magnetic Properties of UTe_2 and U_7Te_{12} .
phys. stat. sol. (a) **13** 2 (1972) 675–80. [DOI]

59. **W. Suski**, **A. Czopnik**, T.Mydlarz,
Magnetic Properties of the Substoichiometric Uranium α-Dichalcogenides, UY_{2-x} .
phys. stat. sol. (a) **12** 2 (1972) 525–31. [DOI]

60. **W. Suski**, **T. Gibiński**, **A. Wojakowski**, **A. Czopnik**,
The Crystal Structure and Magnetic and Electrical Properties of β-US_2 .
phys. stat. sol. (a) **9** 2 (1972) 653–8. [DOI]

61. **W. Suski**, T.Mydlarz, V.U.S.Rao,
Magnetic Properties of Some Cubic Uranium Compounds.
phys. stat. sol. (a) **14** 2 (1972) K157–61. [DOI]

62. **W. Suski**, V.U.S.Rao, **R. Troć**, W.E.Wallace,

Magnetic Behavior of USe at Low Temperature.

J. Solid State Chem. **4** 2 (1972) 223–5. [DOI]

63. **M. Suszyńska**,

Effect of γ-Irradiation on the Critical Resolved Shear Stress of KCl Crystals.

Bull. Acad. Polon. Sci.: sér.sci.techn. **20** 2 (1972) 63–7 [107–11].

64. **M. Suszyńska**, M.Lébl, J.Žemlička,

Physikalische Eigenschaften von nach einer modifizierten Kyropoulos Metode gezüchtete NaCl und KCl Kristallen. [Physical Properties of NaCl and KCl Crystals Prepared by a Modified Kyropoulos Method.]

Krist. Technik **7** 8 (1972) 943–55 [in German]. [DOI]

65. W.Wasilewski, **W.J. Ziętek**,

Influence of the Transversal Magnetic on a Uniaxial Ferromagnet with Plate-Like Domain Structure.

Acta Phys. Pol. A **42** 2 (1972) 207–21.

66. **A. Wojakowski**, **Z. Henkie**, **Z. Kletowski**,

Electrical Resistivity of UAsY Single Crystals (Y = S, Se, Te).

phys. stat. sol. (a) **14** 2 (1972) 517–20. [DOI]

67. **T. Zakrzewski**, E.Z.Dziuba,

Galvanomagnetic Properties of HgTe in High Magnetic Fields.

phys. stat. sol. (b) **52** 2 (1972) 665–70. [DOI]

68. **W.J. Ziętek**,

The Unitary Operator form of the General Bogolyubov–Tyablikov Transformation.

Phys. Lett. A **40** 2 (1972) 139–40. [DOI]

69. **O.J. Żogał**, **B. Staliński**, F.Fröhlich,

Proton Spin–Lattice Relaxation Time in bcc Ti–Mo–H Alloys.

Cryst. Latt. Def. **3** 4 (1972) 207–11.

70. **A. Zygmunt**,

Struktura i własności magnetyczne związków UX_2 (X = P, As, Sb, Bi).
[Structure and Magnetic Properties of UX_2 Compounds (X = P, As, Sb, Bi).]

Studia i Mater. Politechn. Wrocł. Nr 8 (1972) 71–** [in Polish].

71. **A. Zygmunt**, M.Duczmal,

Magnetic Properties of UAsY (Y = S, Se, Te) Compounds.

phys. stat. sol. (a) **9** 2 (1972) 659–63. [DOI]

PUBLIKACJE W MATERIAŁACH KONFERENCYJNYCH
Publications in Conference Materials

72. **H. Opyrchał**, **J.Z. Damm**,

Termoluminescencja kryształów KCl czystych i domieszkowanych jonami Sr^{2+}, napromienionych promieniami gamma. [Thermoluminescence of Gamma-Irradiated, Pure and Sr^{2+}-Ion-Doped KCl Crystals.]

In: *Materiały Ogólnopolskiej Konferencji Luminescencyjnej [Proc. All-Polish Conf. on Luminescence]*, ed. by *** (Toruń: Instytut Fizyki UMK 1972) pp. 66–75 [in Polish].

I Og.-pol. Konferencja Luminescencyjna [1st All-Polish Conf.on Luminescence] TORUŃ, PL, 1972.09 21–24

73. **W. Trzebiatowski**, A.Czernichowski,

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

In: *Chemia plazmy [Plasma Chemistry]* ed. by *** (Warszawa: Wyd. Naukowe Uniwersytetu, 1972) pp. **–* [in Polish].

I Og.-pol.Symp. Chemii Plazmy [1st Natl.Symp.on the Chemistry of Plasma] WARSAW, PL, 1971.** **–**

74. **W. Trzebiatowski**, **Z. Henkie**, **A. Misiuk**,

Thermoelectric and Magnetic Properties of $Th_3P_4 - U_3P_4$ Solid Solutions.

In: *Physics of Semiconductors. XI*, ed. by *** (Warszawa: PWN 1972) pp. 1287–93.

11th Int.Conf.on the Physics of Semiconductors, WARSAW, PL, 1972.07 25–29

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1. **K. Balcerek**, **J. Mucha**, **B. Sujak**,

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   III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

2. **K. Balcerek**, **J. Mucha**, **B. Sujak**, W.Skraba, E.Pega,

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   III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

3. **Z. Biegański**,

   Low Temperature Specific Heats of the Dihydrides of the Light Rare Earth Metals. (C)

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4. **E. Bodio**,

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   III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

5. **E. Bodio**,

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   III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

6. **E. Bodio**, **M. Cendrowski**, **B. Sujak**, **T. Zakrzewski**,

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   III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

7. **E. Bodio**, C.Legutko, **B. Sujak**,

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   III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

8. **E. Bodio**, **B. Sujak**,

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9. **E. Bodio**, **B. Sujak**,

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10. **E. Bodio**, **B. Sujak**,

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    XVII Vsesoyuzn.Soveshch.po Fizike Nizkikh Temperatur [17th All-Union Conf.on Low Temperature Physics] Donetsk, UA, SU, 1972.06 26–30

11. **E. Bodio**, **B. Sujak**,

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XVII Vsesoyuzn.Soveshch.po Fizike Nizkikh Temperatur [17th All-Union Conf.on Low Temperature Physics] Donetsk, UA, SU, 1972.06 26–30

12. **A. Grohman**,

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III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

13. **A. Grohman**, **B. Sujak**,

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III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

14. **J. Hanuza**, **J. Kupka**, **B. Jeżowska-Trzebiatowska**, **E. Łukowiak**,

Polarized IR Absorption and ATR Spectra of Single Crystals of $K_3(Cr(CN)_6)$. (C)

Int.Conf.on Molecular Spectroscopy, Wrocław, PL, 1972.09 15–19

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

Infrared Spectroscopy of Oxygen Bond Systems. (L)

Int.Conf.on Molecular Spectroscopy, Wrocław, PL, 1972.09 15–19

16. **J. Kalicińska-Karut**, **K. Łukaszewicz**, A.Ratuszna,

Struktura fazy ferroelektrycznej i zależności temperaturowe stałych sieciowych $YMnO_3$.
[Structure of the Ferroelectric Phase and Temperature Dependence of $YMnO_3$ Lattice Constants.] (C)

XVII Konwers. Rentgenograficzne [17th Polish Crystallographic Meeting] Wrocław, PL, 1972.09 29–30

17. **J. Kupka**,

Vibration-Induced Optical Transitions in d-Electron Metal Complexes. (C)

Int.Conf.on Molecular Spectroscopy, Wrocław, PL, 1972.09 15–19

18. J.Leciejewicz, S.Ligenza, **A. Misiuk**, A.Murasik, T.Palewski, **W. Suski**, **R. Troć**, **A. Zygmunt**,

Neutronograficzne badania struktury magnetycznej związków uranu.
[Neutron Diffraction Studies of the Magnetic Structure of Uranium Compounds.] (L)

XVII Konwers. Rentgenograficzne [17th Polish Crystallographic Meeting] Wrocław, PL, 1972.09 29–30

19. **L. Lipiński**, **B. Sujak**,

Układ stabilizacji temperatury dla celów kriotermometrii.
[Temperature Stabilization System for Cryothermometry.] (C)

III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

20. **K. Łukaszewicz**, **F. Warkusz**,

The Crystal Structure of Triglycine Fluoberylate in Ferroelectric and Paraelectric Phases. (C)

9th Congr.& Gen.Assy of Int.Union of Crystallography, Kyoto, JP, 1972.08 26 –.09 07

21. **H. Misiorek**, **B. Sujak**, **T. Zakrzewski**,

Aluminiowe naczynie Dewara na ciekły azot z zastosowaniem klejenia.
[Glued Aluminium Dewar Vessel for Liquid Nitrogen.] (C)

III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

22. **H. Misiorek**, **T. Zakrzewski**,

Zastosowanie kompozycji: żywica epoksydowa + szkło na elementy naczyń Dewara. [Application of Glass-Reinforced Resin in Parts of Dewar Vessels.] (C)

III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

23. **H. Misiorek**, **T. Zakrzewski**,

Kriostat ze stali nierdzewnej dla cewek magnesów nadprzewodzących. [Stainless-Steel Cryostate for Superconductor Magnet Coils.] (C)

III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

24. **S. Olejnik**, **K. Łukaszewicz**,

Temperaturowe zależności stałych sieciowych w ferroelektrycznych kryształach TGSe. [Temperature Dependence of Lattice Constants of Ferroelectric TGSe Crystals.] (C)

XVII Konwers. Rentgenograficzne [17th Polish Crystallographic Meeting] Wrocław, PL, 1972.09 29–30

25. **A. Pietraszko**, **K. Łukaszewicz**,

Struktura krystaliczna Zn_3As_2 . [Crystal Structure of Zn_3As_2 .] (C)

XVII Konwers. Rentgenograficzne [17th Polish Crystallographic Meeting] Wrocław, PL, 1972.09 29–30

26. **J. Rafałowicz**, **D. Włosewicz**,

О связи степенной зависимости идеальной составляющей теплосопротивления металлов с правилом Маттисена [Connection of the Power Dependence of the Ideal Component of Thermal Resistivity with the Matthiessen's Rule.] (C)

XVII Vsesoyuzn.Soveshch.po Fizike Nizkikh Temperatur [17th All-Union Conf.on Low Temperature Physics] Donetsk, UA, SU, 1972.06 26–30

27. **B. Staliński**,

Structural Problems of Transition Metal Hydrides. (L)

[1st] Int.Conf.on Hydrogen in Metals, Jülich, DE, 1972.03 20–24

28. **B. Staliński**, **A. Czopnik**, **N. Iliev**, T.Mydlarz,

Магнитные свойства интерметаллических соединений редкоземленных металлов типа RX_3 (X = олово, свинец). [Magnetic Properties of RX_3-Type (X = Sn, Pb) Intermetallic Compounds with Rare Earth Metals.] (C)

7th Int.Conf.on Rare Earths – Metals, Alloys, Compounds, Moscow, SU, 1972.09 11–17

29. **B. Sujak**, **A. Szmyrka**,

Charakterystyki temperaturowe diody DOG-15. [Temperature Characteristics of DOG-15 Diodes.] (C)

III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

30. **T. Suski**, **K. Łukaszewicz**, T.Luty,

Mechanizm przepolaryzowania w ferroelektrycznych kryształach GASH. [Repolarization Mechanism in Ferroelectric GASH Crystals.] (C)

XVII Konwers. Rentgenograficzne [17th Polish Crystallographic Meeting] Wrocław, PL, 1972.09 29–30

31. **W. Trzebiatowski**, **Z. Henkie**, **A. Misiuk**,

Thermoelectric and Magnetic Properties of Th_3P_4–U_3P_4 Solid Solutions. (C)

11th Int.Conf.on Physics of Semiconductors, Warsaw, PL, 1972.07 25–29

32. **D. Włosewicz**, **J. Rafałowicz**,

Przewodnictwo cieplne dwuskładnikowych stopów mosiądzu produkcji krajowej. [Thermal Conductivity of Two-Component Brasses of Domestic Production.] (C)

III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

33. **T. Zakrzewski**, **H. Misiorek**,

Układ odzysku helu z pełną automatyką. [Fully-Automated Helium Recovery System.] (C)

III Og.-kraj. Semin. Kriotechniki i Kriotechnologii [3rd Polish Semin.on Cryotechnics] Wrocław, PL, 1972.09 11–13

34. **Z. Żołnierek**, **J. Mulak**,

Własności magnetyczne jonu U^{5+} w polu ligandów o symetrii oktaedru (deformacje D_{3d}). Poddatność magnetyczna $CsUF_6$ w zakresie od 1.5 do 400 K.
[Magnetic Properties of U^{5+} Ion in Ligands Field of Octahedral Symmetry. Magnetic Susceptibility of $CsUF_6$ in the Temperature Range 1.5–400 K.] (C)

2nd Symp.on Rare Elements Chemistry & Metallurgy, Wrocław, PL, 1972.05 28 –.06 03