

**INDEX**

- Adamčíková, L.** and Ševčík, P., Influence of temperature on oscillating reaction with lactic, tartaric, and oxalic acid. 201
- Adamkovičová, K., Kosa, L., Porvaz, Š., and Proks, I., Enthalpy of incongruent decomposition of  $3\text{CaO} \cdot \text{Al}_2\text{O}_3$ . 3
- see Švecová, B. 585
- Alföldi, J., see Petruš, L. 401
- Antalík, J., see Vavra, J. 29
- Ashaks, J., Jansons, G., Bankovskii, Yu., and Zikmund, M., Investigation of 8-mercaptoquinoline (thiooxine) and its derivatives. 115. Spectral and acid-base properties of phenyl derivatives of 8-mercaptoquinoline. 667
- see Deme, A. 649
- Bafrcová, S.**, see Dojčanský, J. 577
- Baláž, P. and Palková, G., Decomposition of isopropyl alcohol on sulfidic catalysts. I. Dehydrogenation and dehydration of isopropyl alcohol on natural chalcopyrite. 35
- Balgavý, P., see Lübkeová, S. 317
- Bankovskii, Yu., see Ashaks, J. 667
- see Deme, A. 649
- see Stūris, A. K. 345
- see Zaruma, D. 329
- Bartoň, J., see Šušoliak, O. 379
- Bartoš, J., Šimon, P., and Valko, L., Molecular aspects of intramolecular hydrogen abstractions in solid polymers. 271
- Beinrohr, E. and Garaj, J., Oxidation of bis(dialkyldithiocarbamato)nickel(II) with bromine and iodine. 303
- see Hofbauerová, H. 295
- Benko, J. and Vollárová, O., Solvent effects on the kinetics of oxidation of the cysteinato-bis(ethylenediamine)cobalt(III) ion by periodate. 217
- see Holba, V. 207
- Bílik, V., see Petruš, L. 401
- Bittererová, F., see Devínsky, F. 125
- Bleha, T., see Tvaroška, I. 805
- Bobošík, V., see Ilavský, D. 527
- Bochořáková, J., see Slavík, J. 537
- Breza, M., see Pelikán, P. 255
- Brusilovskii, P., see Deme, A. 649
- Brüvers, Z., see Zaruma, D. 329

---

**INDEX**

---

- Adamčíková, L.** and Ševčík, P., Influence of temperature on oscillating reaction with lactic, tartaric, and oxalic acid. 201
- Adamkovičová, K., Kosa, L., Porvaz, Š., and Proks, I., Enthalpy of incongruent decomposition of  $3\text{CaO} \cdot \text{Al}_2\text{O}_3$ . 3
- see Švecová, B. 585
- Alföldi, J., see Petruš, L. 401
- Antalík, J., see Vavra, J. 29
- Ashaks, J., Jansons, G., Bankovskii, Yu., and Zikmund, M., Investigation of 8-mercaptoquinoline (thiooxine) and its derivatives. 115. Spectral and acid-base properties of phenyl derivatives of 8-mercaptoquinoline. 667
- see Deme, A. 649
- Bafmcová, S.**, see Dojčanský, J. 577
- Baláž, P. and Palková, G., Decomposition of isopropyl alcohol on sulfidic catalysts. I. Dehydrogenation and dehydration of isopropyl alcohol on natural chalcopyrite. 35
- Balgavý, P., see Lübkeová, S. 317
- Bankovskii, Yu., see Ashaks, J. 667
- see Deme, A. 649
- see Stüris, A. K. 345
- see Zaruma, D. 329
- Bartoň, J., see Šušoliak, O. 379
- Bartoš, J., Šimon, P., and Valko, L., Molecular aspects of intramolecular hydrogen abstractions in solid polymers. 271
- Beinrohr, E. and Garaj, J., Oxidation of bis(dialkyldithiocarbamate)nickel(II) with bromine and iodine. 303
- see Hofbauerová, H. 295
- Benko, J. and Vollárová, O., Solvent effects on the kinetics of oxidation of the cysteinato-bis(ethylenediamine)cobalt(III) ion by periodate. 217
- see Holba, V. 207
- Bílik, V., see Petruš, L. 401
- Bittererová, F., see Devínsky, F. 125
- Bleha, T., see Tvaroška, I. 805
- Bobošík, V., see Ilavský, D. 527
- Bochořáková, J., see Slavík, J. 537
- Breza, M., see Pelikán, P. 255
- Brusilovskii, P., see Deme, A. 649
- Brüvers, Z., see Zaruma, D. 329

- Cirule, M.**, see Zaruma, D. 329
- Coufalová, O.** and Čermáková, L., Spectrophotometric determination of the platinum metals. VIII. Highly sensitive extraction determination of palladium with 4-(2-pyridyl-azo)resorcinol in the presence of cetylpyridinium bromide. 83
- Čermáková, L.**, see Coufalová, O. 83
- Daněk, V.**, Ličko, T., and Pánek, Z., Surface adsorption of SiO<sub>2</sub> in melts of the system CaO—FeO—Fe<sub>2</sub>O<sub>3</sub>—SiO<sub>2</sub>. 459  
— see Ličko, T. 599
- Danko, P.**, Durmis, J., Karvaš, M., Hrabínová, J., and Kardoš, E., The effect of water on synthesis of triacetoneamine from acetone in acetone. 775
- Deme, A.**, Ashaks, J., Bankovskii, Yu., Zikmund, M., and Brusilovskii, P., Investigation of 8-mercaptoquinoline (thioxine) and its derivatives. 114. Inner complex compounds of 6-methyl-5-sulfo-8-mercaptoquinoline. 649
- Devínský, F.**, Bittererová, F., Lacko, I., and Mlynářčík, D., Amine oxides. XIV. Preparation, infrared spectra, and antimicrobial activity of tris(*N*-oxides) of bis(2-dimethylaminoethyl)alkylamines. 125
- Dojčanský, J.**, Surový, J., and Bafrncová, S., The use of different types of objective function for calculating parameters of the ternary correction of  $G^E$  and liquid—liquid equilibrium composition. 577
- Durmis, J.**, see Danko, P. 775
- Dvořáková, E.**, see Sirotková, L. 639
- Ebert, M.**, see Mička, Z. 617
- Elečko, P.**, see Toma, Š. 115
- Eysseltová, J.** and Kovářová, B., Geometric-analytical method for the study of solubility in multicomponent systems. 607
- Ezr, V.**, see Schwendt, P. 353
- Farka, P.**, Mansfeld, M., Novotný, M., and Sedláček, Z., Kinetics of adsorption and isobaric desorption of styrene on activated coal Supersorbon. 687
- Fedoronko, M.**, see Petrušová, M. 763
- Filippov, M. P.**, Malovíková, A., and Kohn, R., Infrared spectra of 2,3-dicarboxy derivatives of pectic acid. 693
- Fišera, L.** and Oravkin, J., Photochemistry of heterocycles. IX. Preparation and photochemistry of substituted 7-(*X*-phenyl)-9,10-dioxo-8-azatricyclo[4,3,0,1<sup>2,5</sup>]-7-decene derivatives. 783  
— see Zálupský, P. 795
- Füleová, E.**, see Lübkeová, S. 317
- Gáplovský, A.**, see Sutoris, V. 491  
— see Toma, Š. 115

- Garaj, J., see Beinrohr, E. 303
- Halmová, A.**, see Polievka, M. 559
- Hledíková, L., see Šima, J. 41
- Hofbauerová, H., Mocák, J., and Beinrohr, E., Electrochemical study of thiosemicarbazide. 295
- Holba, V. and Benko, J., Kinetics of alkaline hydrolysis of the monomethyl ester of terephthalic acid in mixed aqueous-organic solvents. 207
- Horsák, I. and Sláma, I., Computer modelling of the phase diagrams of nonideal systems with the formation of solid solutions. 15
- Hrabinová, J., see Danko, P. 775
- Hrnčiar, P., see Lácová, M. 135
- see Struhárik, M. 391
- Hrochová, V., see Slavík, J. 537
- Hronec, M. and Ilavský, J., Apparatus for the study of reaction kinetics of gas—liquid systems under pressure. 705
- Hudáková, H., see Mamczák, M. 77
- Ilavský, D.**, Bobošík, V., and Martvoň, A., Preparation and spectral properties of the derivatives of 3-*N*-arylamino-2-cyanopropenoic acid. 527
- Ilavský, J., see Hronec, M. 705
- Jančárová, M.**, see Turi Nagy, L. 289
- Jansons, G., see Ashaks, J. 667
- Joniaková, D., see Schwendt, P. 353
- Kalavská, D.**, see Rúriková, D. 743, 749
- Kardoš, E., see Danko, P. 775
- Karvaš, M., see Danko, P. 775
- Kellö, V., Noga, J., and Urban, M., MB-RSPT calculations of reaction energies for the series of reactions including C<sub>1</sub> to C<sub>4</sub> molecules. 245
- Kettmann, V., see Pavelčík, F. 467
- Kloubek, J., see Patzelová, V. 361
- Kočíš, P., see Petrušová, M. 763
- Kohn, R., see Filippov, M. P. 693
- Konečný, V., Synthesis and pesticidal activity of alkylthiomethylphenyl *N*-methyl- or *N,N*-dimethylcarbamates. 413
- Kováč, Š., and Varkonda, Š., Synthesis, spectral properties, and IHR of 2,4,5-trisubstituted 3-oxo-2*H*-pyridazines. 513
- Koreňová, A., Krutošíková, A., and Kováč, J., Furan derivatives. CCIV. Synthesis and reactions of 5-(2-nitrophenoxy)-2-furaldehyde. 503
- Kosa, L., see Adamkovičová, K. 3
- see Švecová, B. 585

- Košturiak, A.**, Extractive-photometric determination of microquantities of cerium in some metallic materials. 103
- Košťálová, D.**, see **Slavík, J.** 537
- Kováč, A., Svoboda, J., and Ondruš, I.**, Vapour—liquid equilibrium of some binary systems containing 1,1-dichloroethylene. 729
- — — Vapour—liquid equilibrium of some binary systems containing 1,1,2-trichloroethane. 737
- Kováč, J.**, see **Koreňová, A.** 503
- see **Špírková, K.** 769
- Kováč, Š.**, see **Konečný, V.** 513
- Kovářová, B.**, see **Eysseltová, J.** 607
- Krutošíková, A.**, see **Koreňová, A.** 503
- Lacko, I.**, see **Devínsky, F.** 125
- Lácová, M. and Hrnčiar, P.**, Reactions of 2-thienylacetic acid with anhydrides of dicarboxylic acids and aromatic aldehydes under the Perkin synthesis conditions. 135
- Ličko, T., Daněk, V., and Pánek, Z.**, Densities of melts in the system CaO—FeO—Fe<sub>2</sub>O<sub>3</sub>—SiO<sub>2</sub>. 599
- see **Daněk, V.** 459
- Lübkeová, S., Balgavý, P., Füleová, E., Novák, V., Svičková, M., Valášková, I., and Majer, J.**, New complexanes. VI. Acid-base and chelate-forming properties of surface-active complexanes of the type of 2-alkyl-nitrilotriacetic acids. 317
- Majer, J.**, see **Lübkeová, S.** 317
- see **Pavelčík, F.** 467
- see **Sírotková, L.** 639
- Malá, J. and Sláma, I.**, Glass transitions temperatures of the system zinc chloride—dimethyl sulfoxide—water. 721
- Malovíková, A.**, see **Filippov, M. P.** 693
- Mamczák, M. and Hudáková, H.**, Cadmium complexes of *trans*-crotonic acid in aqueous solutions. 77
- Mansfeld, M.**, see **Farka, P.** 687
- Máriássy, M.**, see **Ondrejovič, G.** 49
- Martvoň, A.**, see **Ilavský, D.** 527
- Matulová, M.**, see **Petruš, L.** 401
- Miadoková, M. and Molnárová-Plchová, M.**, Kinetics and mechanism of the reaction of aluminium in aqueous solution of sodium hydroxide. 229
- and **Petrtylová, J.**, Inhibition of aluminium reaction in aqueous sodium hydroxide solution. 237
- Mička, Z., Pikal, P., and Ebert, M.**, Ammonium selenites. 617
- Mihálov, V.**, see **Petrušová, M.** 763
- Mlynarčík, D.**, see **Devínsky, F.** 125
- Mocák, J.**, see **Hofbauerová, H.** 295
- Molnárová-Plchová, M.**, see **Miadoková, M.** 229

- Mrákavová, M., see Treindl, L. 191  
Mroziński, J., see Ondrejovič, G. 49  
Muchová, A., see Pikulíková, Z. 481
- Nguyen Truong Son, see Šimek, J. 91  
Noga, J., see Kellö, V. 245  
Novák, V., see Lübkeová, S. 317  
Novomeský, P., see Sirotková, L. 639  
Novotný, M., see Farka, P. 687
- Odlerová, Ž., see Sidóová, E. 543, 553  
Ondrejovič, G., Valigura, D., Máriássy, M., and Mroziński, J., Preparation and properties of the tetra- $\mu$ -acetato-(*O,O'*)-bis(triphenylphosphine)dicopper(II) complex. 49  
Ondruš, I., see Kováč, A. 729, 737  
Oravkin, J., see Fišera, L. 783
- Palková, G., see Baláž, P. 35  
Pánek, Z., see Daněk, V. 459  
— see Ličko, T. 599  
Patzelová, V., Zukal, A., and Kloubek, J., Structure properties of dealuminated Y zeolites. 361  
Pavelčík, F., Kettmann, V., and Majer, J., XRC83 program package for structure determination of organic molecules and drugs by single crystal X-ray diffraction. 467  
Pecha, L. Ya., see Stüris, A. K. 345  
Pechar, F. and Rykl, D., Study of the thermal stability of the natural zeolite heulandite. 369  
Pelikán, P. and Breza, M., Classification of the possible symmetries of the Jahn—Teller systems. 255  
Perjéssy, A. and Sidóová, E., Wavenumbers of C=O stretching vibrations of *exo*-7-oxabicyclo[2.2.1]heptane-2,3-dicarboximide derivatives. 755  
Petrovič, J., Števula, L., and Pisárčik, M., Interaction between  $\alpha$ -,  $\beta$ - or  $\gamma$ -FeOOH and water at 60 °C, 80 °C, and 100 °C. 59  
Petrtýlová, I., see Miadoková, M. 237  
Petruš, L., Alföldi, J., Matulová, M., and Bílík, V., Preparation and <sup>13</sup>C NMR spectra of some disaccharide glycosylmethylamines. 401  
— and Petrušová, M., Preparation of *O*-(3-formylmethoxy-2-hydroxypropyl)-cellulose. 407  
Petrušová, M., Mihálov, V., Kočíš, P., and Fedoroňko, M., Preparation and identification of aldolization products of 1,3-dimethoxy-2-propanone. 763  
— see Petruš, L. 407  
Pikal, P., see Mička, Z. 617  
Pikulíková, Z. and Muchová, A., Study of the complex-forming equilibria of Zn(II), Mg(II), and Ca(II) cations with *N*-(methylphosphonic)iminodiacetic and glycine-*N,N*-bis(methylphosphonic) acids by the cation-exchange method. 481

- Pirická, Z., see Zálupský, P. 795  
 Pisárčík, M., see Petrovič, J. 59  
 Polievka, M., and Halmová, A., Monitoring of the carbon monoxide formation in treatment of 2-hydroxy-2-methylpropionitrile with sulfuric acid. 559  
 Porvaz, Š., see Adamkovičová, K. 3  
 Proks, I., see Adamkovičová, K. 3  
 — see Švecová, B. 585
- Rajniak, P.**, Analysis of a one-component sorption in a single adsorbent particle by the orthogonal collocation method. IV. One-point collocation method and linear-driving-force approximation. 447  
 — and Žemlička, A., Analysis of a one-component sorption in a single adsorbent particle by the orthogonal collocation method. III. Kinetics of n-heptane adsorption on molecular sieve Calsit 5. 433  
 Růriková, D. and Kalavská, D., Square-wave polarographic determination of copper, lead, and cadmium in zinc oxide. 743  
 — — Square-wave polarographic determination of lead(II) and zinc(II) in vinyl acetate. 749  
 Ružička, E., see Šimek, J. 91  
 Rykl, D., see Pechar, F. 369
- Sedláček, Z.**, see Farka, P. 687  
 Sekerka, V., see Sutoris, V. 491  
 Schraml, J., see Žůrková, L. 629  
 Schwendt, P., Joniaková, D., and Ezr, V., Composition of the fluorooxoperoxo complexes of vanadium(V) crystallizing from acid medium. 353  
 Sidóová, E. and Odlerová, Ž., Synthesis and the biological activity of 6-acetamido-2-alkylthiobenzothiazoles. 553  
 — — and Špaldonová, R., 2-Alkylthio-6-benzoylaminobenzothiazoles. 543  
 — see Perjéssy, A. 755  
 Sirotková, L., Novomeský, P., Dvořáková, E., Valášková, I., and Majer, J., Study of acid-base properties of *N,N'*-di(2-hydroxybenzyl)ethylenediamine-*N,N'*-diacetic acid and its chelates with lanthanides. 639  
 Sláma, I., see Horsák, I. 15  
 — see Malá, J. 721  
 Slavík, J., Bochořáková, J., Košťálová, D., and Hrochová, V., Alkaloids of *Mahonia aquifolium* (PURSH) NUTT. II. 537  
 Slosiariková, H. and Sutoris, V., Interaction of montmorillonite and benzothiazole derivatives. 69  
 Sohlerová, R., see Sutoris, V. 491  
 Soldánová, J., see Ulický, L. 473  
 Struhárik, M. and Hrnčiar, P., Claisen condensation of dimethyl 2,3-thiophenedicarboxylate with methyl acetate and acetonitrile. 391

- Stūris, A. K., Stūris, A. P., Pecha, L. Ya., Zikmund, M., and Bankovskii, Yu. A., Investigation of 8-mercaptoquinoline (thiooxine) and its derivatives. 111. Interaction with metal ions and properties of inner complex compounds of 2-propyl-8-mercaptoquinoline. 345
- Stūris, A. P., see Stūris, A. K. 345
- Suchá, V., see Žúrková, L. 629
- Surový, J., see Dojčanský, J. 577
- Sutoris, V., Gáplovský, A., Sohlerová, R., and Sekerka, V., Benzothiazole compounds. XXIII. Synthesis, structure, and growth-regulating activity of 2-alkoxycarbonylmethylthio-3-alkylbenzothiazolium salts. 491
- see Slosiariková, H. 69
- Svičeková, M., see Lübkeová, S. 317
- Svoboda, J., see Kováč, A. 729, 737
- Ševčík, P., see Adamčíková, L. 201
- Šima, J., Šimová, A., and Hledíková, L., Innersphere redox reactions of iron(II) halogeno complexes containing  $\pi$ -acceptor ligands. 41
- Šimek, J., Nguyen Truong Son, and Ružička E., Spectrophotometric study of the reaction between dyes of the alizarin green series and vanadates in the presence of cetylpyridinium cation. 91
- Šimon, P., see Bartoš, J. 271
- Šimová, A., see Šima, J. 41
- Špaldonová, R., see Sidóová, E. 543
- Špírková, K. and Kováč, J., Furan derivatives. 199. Preparation and nucleophilic substitution reactions of ethyl ester of 4-bromo-3-(2-furyl)-2-butenic acid. 769
- Števíla, L., see Petrovič, J. 59
- Šušoliak, O. and Bartoň, J., Dispersion polymerization of methyl methacrylate in heptane. 379
- Švecová, B., Adainkovičová, K., Kosa, L., and Proks, I., Determination of the enthalpy of crystallization of eutectic melt in the system  $3\text{CaO} \cdot \text{Al}_2\text{O}_3$ — $12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$ — $2\text{CaO} \cdot \text{SiO}_2$ . 585
- Tkáč, A., see Tkáč, I. 147
- Tkáč, I. and Treindl, L., Influence of oxygen on the Belousov—Zhabotinskii oscillating reaction. II. Liberation of gaseous reaction products and concentration oscillations of oxygen. 161 ; III. Release of bromides, kinetics of malonic acid oxidation by manganese(III), and simulating calculations. 175
- — and Tkáč, A., Influence of oxygen on the Belousov—Zhabotinskii oscillating reaction. I. Dependence of oscillatory parameters on the gas flow, method of bubbling, stirring, and temperature. 147
- Toma, Š., Gáplovský, A., and Elečko, P., Synthesis and electronic spectra of 1-aryl-2-ferrocenylethylenes. 115

- Treindl, L. and Mrákavová, M., Belousov—Zhabotinskii reaction with the ethyl ester of 3-oxobutanoic acid in the presence of Mn(II)—Mn(III). 191  
 — see Tkáč, I. 147, 161, 175
- Turi Nagy, L. and Jančárová, M., Theoretical study of the rotational barrier height of the anisole molecule for different solvents and partition coefficients solvent/water. 289
- Tvaroška, I. and Bleha, T., Theoretical stereochemistry of molecules with heteroatoms linked to the tetrahedral centre and the anomeric effect. 805
- Ulický, L. and Soldánová, J., Structure of 4-bromophenyl isothiocyanate. 473
- Urban, M., see Kellö, V. 245
- Valášková, I., see Lübkeová, S. 317  
 — see Sirotková, L. 639
- Valigura, D., see Ondrejovič, G. 49
- Valko, L., see Bartoš, J. 271
- Varkonda, Š., see Konečný, V. 513
- Vavra, J. and Antalík, J., Distribution analysis of poly(vinyl chloride) latexes by transmission methods of light scattering. 29
- Vollárová, O., see Benko, J. 217
- Zálupský, P., Pirická, Z., and Fišera, L., Investigation of the site selectivity of 7-isopropylidene- and 7-(1-phenylethylidene)norborene in 1,3-dipolar cycloadditions. 795
- Zaruma, D., Círule, M., Zuika, I., Brüvers, Z., Zikmund, M., and Bankovskii, Yu. A., Investigation of 8-mercaptoquinoline (thioxine) and its derivatives. 110. Physicochemical properties of 5-amino-8-mercaptoquinoline. 329
- Zikmund, M., see Ashaks, J. 667  
 — see Deme, A. 649  
 — see Stūris, A. K. 345  
 — see Zaruma, D. 329
- Zuika, I., see Zaruma, D. 329
- Zukal, A., see Patzelová, V. 361
- Žemlička, A., see Rajniak, P. 433
- Žúrková, L., Suchá, V., and Schraml, J., Influence of temperature, vanadium concentration, and degree of solution acidification on composition of the solid products. IX. Products of the reactions taking place in acidified solutions of rubidium and cesium metavanadate and study of the  $^{51}\text{V}$  NMR spectra of aqueous solutions of polyvanadates. 629
- Anniversaries. 573, 855  
 Book Reviews. 143, 285, 429, 565, 709, 849  
 News. 288, 572, 716  
 Obituary. 286  
 Index. 857