

D O C U M E N T A   C H E M I C A   Y U G O S L A V I C A

CROATICA  
CHEMICA ACTA

(ARHIV ZA KEMIJU)

VOL. 38

INDEX

Z A G R E B  
YUGOSLAVIA

1966

*Croat. Chem. Acta*

# CROATICA CHEMICA ACTA

## Adresa redakcije

## Address of the Editorial Board

**CROATICA CHEMICA ACTA**  
19 Marulićev trg, Zagreb, Croatia, Yugoslavia

## REDAKCIJSKI ODBOR — EDITORIAL BOARD

*Glavni urednik — Editor*  
Božo Težak

*Pomoćni urednici — Assistant Editors*  
Ljubomir Jeftić i Petar Strohal

*Tajnik — Secretary*  
Dina Keglević

*Pomoćni tajnik — Assistant Secretary*  
Vera Mikulčić

## Članovi odbora — Members

Š. Ašperger, Z. Ban, A. Bezjak, S. Borčić, Gj. Deželić, C. Djordjević, M. Drakulić,  
J. Dugošević, I. Filipović, D. Fleš, B. Glunčić, H. Iveković, B. Lovreček, S. Maričić,  
P. Mildner, N. Pravdić, V. Pravdić, M. Proštenik, M. Randić, Ž. Stojanac, D. Sunko,  
V. Škarić, M. Tišler, V. Tomašić i O. Weber

## CONTENTS — SADRŽAJ

## ORIGINAL SCIENTIFIC PAPERS — ORIGINALNI ZNANSTVENI RADOVI

## ANALYTICAL CHEMISTRY — ANALITIČKA KEMIJA

- P. Strohal, D. Letić, and J. Tuta:** The Precipitation of Rubidium and Caesium with Silicotungstic Acid (*Taloženje rubidija i cezija silikovolframatom kiselinom*) . . . . . 203

## PHYSICAL AND INORGANIC CHEMISTRY — FIZIČKA I ANORGANSKA KEMIJA

- R. M. Nikolić and I. J. Gal:** The Solvent Extraction of Fe (III) and U (VI) with Mixtures of Tri-n-octylamine and Thenoyltrifluoroacetone in Benzene and Nitrobenzene (*Ekstrakcija Fe (III) i U (VI) sa smjesama tri- n-oktilamina i tenoiltrifluoroacetona u benzenu i nitrobenzenu*) . . . . . 17
- Gj Deželić and J. Vavra:** Angular Dependence of the Light Scattering in Pure Liquids (*Kutna zavisnost rasipanja svjetlosti u čistim tekućinama*) . . . . . 35
- M. Bandić, J. M. Jerkunica, and D. Stefanović:** Hybridization in Several Polycyclic Alkanes by the Method of Maximum Overlap (*Hibridizacija u nekim poliklikičkim alkanima metodom maksimalnog prekrivanja*) . . . . . 49
- H. Bilinski:** Precipitation and Hydrolysis of Thorium (IV) in Aqueous Solution. III. The Composition of the Precipitates in the System Thorium Nitrate — Potassium Phthalate (*Taloženje i hidroliza torija (IV) u vodenoj otopini. III. Sastav taloga u sistemu torijev nitrat — kalijev ftalat*) . . . . . 71
- R. Despotović and M. Mirnik:** Heterogeneous Exchange of Precipitates. XIII. Influence of n-Myristylamine and n-Dodecylamine on the Dried AgI—I- Exchange (*Heterogena zamjena na precipitativa. XIII. Utjecaj n-miristiilamin nitrata i n-dodecilamin nitrata na AgI—I- zamjenu*) . . . . . 83
- S. Popović:** A Correction for the Effect of a Low Absorption Coefficient on the X-ray Line Profiles (*Korigiranje efekta malog koeficijenta apsorpcije na profil rendgenskih linija*) . . . . . 91
- Vl. Simeon and O. A. Weber:** Chelation of Some Bivalent Metal Ions with Alanine and Phenylalanine (*Helati dvovalentnih iona nekih metala s alanim i fenilalaninom*) . . . . . 161
- A. Filip and M. Mirnik:** Heterogeneous Exchange of Amalgams. II. Hydrogen Ion Concentration Effect on the Zn-Amalgam —  $Zn^{++}(SO_4^-)$  Solution Exchange (*Heterogena izmena amalgama. II. Uticaj koncentracije hidrogen-iona na izmenu Zn-amalgama  $Zn^{++}(SO_4^-)$  rastvora*) . . . . . 167
- Lj. Marazović and Z. Pučar:** Electrodialysis of  $^{106}\text{Ru}$ ,  $^{56,57,58}\text{Co}$  and  $^{65}\text{Zn}$  in Sea Water Through Ion-Exchange Membranes (*Elektrodijaliza  $^{106}\text{Ru}$ ,  $^{56,57,58}\text{Co}$  i  $^{65}\text{Zn}$  u morskoj vodi kroz ionsko-izmjenjivačke membrane*) . . . . . 181
- D. Maljković and M. Branica:** An Investigation of the System: Ferric Chloride-Hydrochloric Acid—Water—Isopropyl Ether (*Ispitivanje sistema: ferum (III) klorid-hidrogen klorid—voda—isopropilni eter*) . . . . . 191
- N. Galešić and B. Težak:** Methodics of the Precipitation Processes. XXI. Flocculation and Stabilization Effect of Quinine Sulphate on Silver Iodide Hydrosol in *Statu Nascendi* (*Metorika precipitacionih procesa. XXI. Flokulaciono i stabilizaciono djelovanje kinin-sulfata na hidrosol argentum-jodida in statu nascendi*) . . . . . 213
- B. Tomažić and M. Branica:** Precipitation and Hydrolysis of Uranium (VI) in Aqueous Solutions. V. The Composition of Precipitates from Uranyl Nitrate — Potassium Hydroxide — K, Ca, Sr, Ba and Eu-Nitrate Solutions

(Taloženje i hidroliza urana (VI) u vodenim otopinama. V. Sastav taloga iz otopina: uranil-nitrat — kalijum hidroksid — K-, Ca-, Sr-, Ba- i Eu-nitrat)	249
<b>H. Bilinski and M. Branica:</b> Precipitation and Hydrolysis of Metallic Ions in Sea Water. I. Ionic State of Zirconium and Thorium in Sea Water (Taloženje i hidroliza metalnih iona u morskoj vodi. I. Ionsko stanje cirkoniuma i toriuma u morskoj vodi)	263
<b>Z. Orhanović, B. Pokrić, H. Füredi, and M. Branica:</b> Precipitation and Hydrolysis of Metallic Ions. III. Studies on the Solubility of Yttrium and Some Rare Earth Hydroxides (Taloženje i hidroliza metalnih iona. III. Studij topivosti itrium-hidroksida i hidroksida nekih rijetkih zemalja)	269
<b>J. Petres, Gj. Deželić, and B. Težak:</b> Monodisperse Sols of Barium Sulfate. I. Preparation of Stable Sols (Monodisperzni solovi barium-sulfata. I. Priredivanje stabilnih solova)	277
<b>N. Trinajstić:</b> Molecular Orbital Calculations for Tetracene Monopositive Ion (Molekularno-orbitalni račun za tetracen monopozitivan ion)	283
<b>N. Tinajstić:</b> Equivalent Orbitals of NH, NH <sub>2</sub> and NH <sub>3</sub> (Ekvivalentne orbitale za NH, NH <sub>2</sub> i NH <sub>3</sub> )	287

## ORGANIC CHEMISTRY AND BIOCHEMISTRY — ORGANSKA KEMIJA I BIOKEMIJA

<b>V. Škarić, B. Gašpert, and I. Jerkunica:</b> Hydropyrimidines. V. Isomeric Dihydro 2- and 4-Oxopyrimidines ( <i>Hidropirimidini. V. Izomerni dihidro 2- i 4-okso-pirimidini</i> )	1
<b>V. Seke and D. Fleš:</b> The Absolute Configuration of $\gamma$ -Methyl- $\epsilon$ -caprolactam ( <i>Apsolutna konfiguracija <math>\gamma</math>-metil-<math>\epsilon</math>-kaprolaktama</i> )	9
<b>Z. Skurić und K. Weber:</b> Zur Kinetik der katalytischen Oxydation des Indols ( <i>Kinetika katalitičke oksidacije indola</i> )	23
<b>Z. Kućan:</b> Activation of Ribonuclease I by Gamma Irradiation of 30 S Ribosomes from <i>Escherichia coli</i> ( <i>Aktivacija ribonukleaze I gama zračenjem 30 S ribosoma bakterije Escherichia coli</i> )	97
<b>B. Straus and I. Berkeš:</b> Transaminating Processes Involving Histidine in Human Haemolysed Erythrocytes ( <i>Procesi transaminacije s histidinom u hemolizatima čovječjih eritrocita</i> )	105
<b>K. Blažević and V. Hahn:</b> Studies on 4-Pyrone and 4-Pyridones. III. The Preparation of Some New 5-Hydroxy-1-aryl-4-pyridone-2-carboxylic Acids and Related Compounds ( <i>Studije u redu 4-pirona i 4-piridona. III. Priprava nekih novih 5-hidroksi-1-aryl-4-piridon-2-karbonskih kiselina i srodnih spojeva</i> )	113
<b>B. Glunčić, K. Jakopčić, N. Krvavica, and V. Hahn:</b> Preparation of Some New Substituted 5-(2'-Furfuryl)-barbituric and -thiobarbituric Acids ( <i>Priprava nekih novih supstituiranih 5-(2'-furfurl)-barbiturnih i -thiobarbiturnih kiselina</i> )	119
<b>Z. Gašparec and K. Weber:</b> Studies on the Spectra of Protoberberine Alkaloids. I. Absorption Spectrum of Berberine ( <i>Studije spektara protoberberinskih alkaloida. I. Apsorpcioni spektri berberina</i> )	143
<b>B. Ladešić and D. Keglević:</b> Biochemical Studies in Tobacco Plants. III. Synthesis and Behaviour of Potential Metabolites of D- $\alpha$ -Methionine ( <i>Bio-kemijske studije u duhanu. III. Sinteza i svojstva potencijalnih D-<math>\alpha</math>-methionina u duhanu (Nicotiana rustica)</i> )	155
<b>D. Bilović:</b> The Reaction of Arylfurfurylamines with Maleic Anhydride ( <i>Reakcija arilfurfurylamina sa anhidridom maleinske kiseline</i> )	293
<b>F. Kuhelj, B. Stanovnik, and M. Tišler:</b> Synthesis of Pyridazine Derivatives. IX. Formation of Pyridazines in the Reaction of Some Acid Anhydrides with Hydrazines ( <i>Sinteze piridazinovih derivatov. IX. Tvorba piridazinov v reakciji med nekaterimi anhidridi kislin in hidrazini</i> )	299

## NOTES — BILJEŠKE

## ANALYTICAL CHEMISTRY — ANALITIČKA KEMIJA

- Z. Balenović, H. Iveković, and V. Stojanović:** Quantitative Determination of Submicro Amounts of Uranine in Subterranean Rivers (*Kvantitativno određivanje submikrokoličina uranina u vodama ponornica*) . . . . . 127

- K. Kvastek, P. Strohal, and R. Despotović:** Electrochemical Separation of Carrier-free Iron (*Elektrokemijska separacija željeza bez nosača*) . . . . . 317

## PHYSICAL AND INORGANIC CHEMISTRY — FIZIČKA I ANORGANSKA KEMIJA

- M. Pintar, J. Porok, and J. Slivnik:** Fluorine Magnetic Resonance Shifts in Paramagnetic  $\text{PuF}_4$  (*Frekvenčni premiki magnetne rezonancije fluorja u paramagnetenom  $\text{PuF}_4$* ) . . . . . 61

- G. Lahajnar, M. Pintar, and J. Slivnik:** Preliminary NMR Data of Ammonium Heptafluorozirconate (*Preliminarni NMR podatki o amonijevem heptafluorocirkonatu*) . . . . . 63

- D. Maljković and M. Branica:** Equilibria of Liquid Phases in the Ternary System: Ferric Chloride—Water—Isopropyl Ether (*Ravnoteža tekućih faza u trokomponentnom sistemu: željezni (III) klorid—voda—izopropilni eter*) . . . . . 65

- B. Matković, M. Šljukić, and B. Prodić:** Preparative and X-Ray Crystallographic Data on Potassium Dithorium Triphosphate,  $\text{KTh}_2(\text{PO}_4)_3$  (*Preparativni i kristalografski podaci o kalijevom ditorijevom fosfatu,  $\text{KTh}_2(\text{PO}_4)_3$* ) . . . . . 69

- V. Galogaža:** Determination of the Complex Dielectric Constant of Liquid Dielectrics in the Microwave Region (*Određivanje kompleksne dielektrične konstante tekućih dielektrika kod mikrovalnih frekvencija*) . . . . . 131

- M. Kesler and I. Perina:** A Modified Cell for Measurements of Dielectric Constant (*Modificirana čelija za mjerjenje dielektrične konstante*) . . . . . 135

- S. Popović:** Unit Cell Dimensions Measurement of Less Perfectly Crystallized Artificial Graphite (*Mjerjenje dimenzija elementarne čelije slabije kristaliziranog umjetnog grafita*) . . . . . 223

- S. Popović:** Crystallite Size and Lattice Distortion Determination of Graphite (*Određivanje veličine kristalita i distorzije kristalne rešetke grafta*) . . . . . 227

- D. S. Pešić:** Emission Spectrum of Zinc Oxide between 6000 and 5000 Å (*Emisioni spektar cink-oksida između 6000 i 5000 Å*) . . . . . 313

- R. Despotović and S. Popović:** X-Ray Diffraction Analysis of Dried  $\text{AgI}$  Prepared by Isoelectric Coagulation (*Rendgenska analiza sušenog  $\text{AgI}$  priređenog izoelektričnom koagulacijom*) . . . . . 321

## ORGANIC CHEMISTRY AND BIOCHEMISTRY — ORGANSKA KEMIJA I BIOKEMIJA

- K. Humski, S. Borčić, and D. E. Sunko:** Deuterium Scrambling During Stereochemical Equilibration of endo- and exo-Norbornanol-3,3-d<sub>2</sub> (*Premještanje deuterija kod stereokemijske ekvilibracije endo- i ekso-norbornanola-3,3-d<sub>2</sub>*) . . . . . 55

- A. Kornhauser and D. Keglević:** The Preparation and Properties of Some  $\alpha$ -Arylureidoesters (*Priprava i svojstva nekih  $\alpha$ -arelureidoestera*) . . . . . 57

- A. Junašević-Holjevac and B. Glunčić:** Synthesis of Some Derivatives of  $p$ -(1,1-Dioxotetrahydro-2-thiazinyl) benzenesulfonamide (*Sinteza nekih derivata p-(1,1-dioksotetrahidro-2-tiazinil) benzensulfonamida*) . . . . . 123

- B. Glunčić, K. Dostal, and Z. Crnić:** The Synthesis of Some Disubstituted Derivatives of  $p$ - $p'$ -bis-(Pyrimidyl-2-sulphamyl)-carbanilide. II. (*Sinteza nekih disupstituiranih derivata p-p'-bis-(pirimidil-2-sulfamil)-karbanilida. II.*) . . . . . 236

- V. Bedenko and B. Glunčić:**  $\text{N}^4$ -Acylsulphonamides. I. Derivatives of  $p$ -(2-Ethoxybenzamido) benzenesulphamide ( *$\text{N}^4$ -Acilsulfonamidi. I. Derivati p-(2-etoksibenzamido) benzensulfamida*) . . . . . 303

## PRELIMINARY COMMUNICATION — PRETHODNO SAOPĆENJE

- A. Bezjak and I. Jelenić:** Crystal Structure Investigation of Calcium Aluminium Sulphate Hydrate — Ettringite (*Određivanje kristalne strukture kalcijevog aluminijevog sulfat-hidrata — etringita*) . . . . . 237

## BOOK REVIEWS — RECENZIJE

<i>Recent Developments in the Chemistry of Natural Carbon Compounds</i> , Vol. I. (V. Škarić) . . . . .	137
<i>Rodds Chemistry of Carbon Compounds</i> , Vol. 1 D (V. Škarić) . . . . .	137
<i>Absorption Spectra in the Ultraviolet and Visible Region</i> , Vol. VI. (B. Gašpert)	138
<b>B. E. Conway:</b> <i>Theory and Principles of Electrode Processes</i> (V. Pravdić) . . . . .	138
<b>K. Higasi, H. Baba, and A. Rembaum:</b> <i>Quantum Organic Chemistry</i> (N. Trinajstić) . . . . .	139
<b>H. F. Hameka:</b> <i>Advanced Quantum Chemistry</i> (N. Trinajstić) . . . . .	140
<b>J. N. Murrell, S. F. A. Kettie, and J. M. Tedder:</b> <i>Valence Theory</i> (M. Randić) . . . . .	140
<b>Marta Deri:</b> <i>Ferroelectric Ceramics</i> (M. Topić) . . . . .	241
<b>F. T. Guker and R. L. Seifert:</b> <i>Physical Chemistry</i> (G. Deželić) . . . . .	241
<i>Jadernaja himija</i> (P. Strohal) . . . . .	242
<b>V. D. Nefedov, M. A. Toropova, I. V. Krivohasthaja, E. N. Sinotova:</b> <i>Radioaktivnije izotopi v himičeskih issledovanijah</i> (P. Strohal) . . . . .	243
<i>Metodi koncentrirovanija večestv v analitičeskoj himii</i> (P. Strohal) . . . . .	244
<b>Holleman-Schuler:</b> <i>Einfache Versuche auf dem Gebiete der organischen Chemie</i> (B. Glunčić) . . . . .	244
<i>Metoden der organischen Chemie</i> (D. Kolbah) . . . . .	244
<b>Hoppe-Seyler/Thierfelder:</b> <i>Handbuch der physiologisch- und pathologisch-chemischen Analyse</i> (S. Kveder) . . . . .	245
<i>Dictionary of Organic Compounds</i> (R. Stevens, Editor) (B. Gašpert) . . . . .	325
<b>M. Bubner und L. Schmidt:</b> <i>Die Synthese Kohlenstoff-14-markierter organischer Verbindungen</i> (D. Keglević) . . . . .	325
<b>E. Heilbronner and Straub:</b> <i>Hückel Molecular Orbitals</i> (N. Trinajstić) . . . . .	326
<b>Keith J. Laidler:</b> <i>Chemical Kinetics</i> (M. Papić) . . . . .	326
<b>Bruce H. Mahan:</b> <i>College Chemistry</i> (Z. Ban) . . . . .	327
<b>G. Alexits und S. Fenyö:</b> <i>Mathematik für Chemiker</i> (D. Stefanović) . . . . .	327
<b>L. K. Nash:</b> <i>Stoichiometry</i> (P. Strohal) . . . . .	328
<b>Harald Enge:</b> <i>Introduction to Nuclear Physics</i> (P. Strohal) . . . . .	328
<i>Enciclopedia moderna</i> (M. Randić) . . . . .	328

## APPENDIX — PRILOG

<i>Redovita godišnja skupština Hrvatskog kemijskog društva za 1966. godinu</i> . . . . .	A 1
<i>Kolokviji Hrvatskog kemijskog društva</i> . . . . .	A10
<i>Popis novih članova Hrvatskog kemijskog društva</i> . . . . .	A11
<i>Primjedba na zapisnik redovite godišnje skupštine HKD-a za godinu 1966.</i> . . . . .	A13

## BIBLIOGRAPHIA CHEMICA CROATICA

<i>Dissertationes</i> (DCC-22) . . . . .	B 1
<i>Master of Science Theses</i> (MCC-22, MCC-23) . . . . .	B 5
<i>Dissertationes</i> (DCC-23) . . . . .	B 7
<i>Master of Science Theses</i> (MCC-24) . . . . .	B 9
<i>Master of Science Theses</i> (MCC-25, MCC-26) . . . . .	B11

## INDEX

<i>Index 1966</i> . . . . .	I.
-----------------------------	----

# INDEX

1966

## AUTHOR INDEX — INDEKS PO AUTORIMA

ORIGINAL SCIENTIFIC PAPERS (O) — ORIGINALNI ZNANSTVENI RADOVI (O)	
NOTES (B) — BILJESKE (B)	
PRELIMINARY COMMUNICATIONS (S) — PRETHODNA SAOPĆENJA (S)	
Balenović, Z., Ivezković, H., and Stojanović, V.: Quantitative Determination of Submicro Amounts of Uranine in Subterranean Rivers (O) . . . . .	127
Bedenko, V. and Glunčić, B.: N <sup>4</sup> -Acylsulphonamides. I. Derivatives of <i>p</i> -(2-Ethoxybenzamido) benzenesulphamide (B) . . . . .	309
Bezjak, A. and Jelenić, I.: Crystal Structure Investigation of Calcium Aluminium Sulphate Hydrate — Ettringite (B) . . . . .	237
Berkeš, I.: vidi Štraus, V.	
Bilinski, H.: Precipitation and Hydrolysis of Thorium (IV) in Aqueous Solution. III. The Composition of the Precipitates in the System Thorium Nitrate — Potassium Phthalate (O) . . . . .	71
Bilović, D.: The Reaction of Arylfurylamines with Maleic Anhydride (O) .	293
Bilinski, H. and Branica, M.: Precipitation and Hydrolysis of Metallic Ions in Sea Water. I. Ionic State of Zirconium and Thorium in Sea Water (O) .	263
Blažević, K. and Hahn, V.: Studies on 4-Pyrones and 4-Pyridones. III. The Preparation of Some New 5-Hydroxy-1-aryl-4-pyridone-2-carboxylic Acids and Related Compounds (O) . . . . .	113
Borčić, S.: vidi Humski, K.	
Branica, M.: vidi Bilinski, H.	
Branica, M.: vidi Maljković, D.	
Branica, M.: vidi Orhanović, Z.	
Branica, M.: vidi Tomažić, B.	
Crnić, Z.: vidi Glunčić, B.	
Despotović, R. and Mirnik, M.: Heterogeneous Exchange of Precipitates. XIII. Influence of <i>n</i> -Myristylamine and <i>n</i> -Dodecylamine on the Dried AgI—I <sup>—</sup> Exchange (O) . . . . .	83
Despotović, R. and Popović, S.: X-Ray Diffraction Analysis of Dried AgI Prepared by Isoelectric Coagulation (B) . . . . .	321
Despotović, R.: vidi Kvastek, K.	
Deželić Gj. and Vavra, J.: Angular Dependence of the Light Scattering in Pure Liquids (O) . . . . .	35
Deželić, Gj.: vidi Petres, J.	
Dostal, K.: vidi Glunčić, B.	
Filip, A. and Mirnik, M.: Heterogeneous Exchange of Amalgams. II. Hydrogen Ion Concentration Effect on the Zn-Amalgam — Zn <sup>++</sup> (SO <sub>4</sub> <sup>—</sup> ) Solution Exchange (O) . . . . .	167
Fleš, D.: vidi Seke, V.	
Füredi, H.: vidi Orhanović, Z.	
Gal, I. J.: vidi Nikolić, R. M.	
Galešić, N. and Težak, B.: Methodics of the Precipitation Processes. XXI. Flocculation and Stabilization Effect of Quinine Sulphate on Silver Iodide Hydrosol in <i>Statu Nascendi</i> (O) . . . . .	213

## VIII

• Galogaža, V.: Determination of the Complex Dielectric Constant of Liquid Dielectrics in the Microwave Region (B) . . . . .	131
• Gašpert, B. V.: vidi Škarić, V.	
• Gašparec, Z. and Weber, K.: Studies on the Spectra of Protoberberine Alkaloids. I. Absorption Spectrum of Berberine (O) . . . . .	143
• Glunčić, B.: vidi Bedenko, V.	
• Glunčić, B.: vidi Junašević-Holjevac, A.	
• Glunčić, B., Jakopčić, K., Krvavica, N., and Hahn, V.: Preparation of Some New Substituted 5-(2'-Furfuryl)-barbituric and -thiobarbituric Acids (O) . . . . .	119
• Glunčić, B., Dostal, K., and Crnić, Z.: The Synthesis of Some Disubstituted Derivatives of <i>p-p'</i> -bis-(Pyrimidyl-2-sulphamyl)-carbanilide. II. (B) . . . . .	236
Hahn, V.: vidi Blažević, K.	
Hahn, V.: vidi Glunčić, B.	
Humski, K., Borčić, S., and Sunko, D. E.: Deuterium Scrambling During-Stereochemical Equilibration of endo- and exo-Norbornanol-3,3-d <sub>2</sub> (O) . . . . .	55
Iveković, H.: vidi Balenović, Z.	
Jakopčić, K.: vidi Glunčić, B.	
Jelenić, I.: vidi Bezjak, A.	
Jerkunica, I.: vidi Škarić, V.	
Jerkunica, J. M.: vidi Randić, M.	
Junašević-Holjevac, A. and Glunčić, B.: Synthesis of Some Derivatives of <i>p</i> -(1,1-Dioxotetrahydro-2-thiazinyl) benzenesulfonamide (B) . . . . .	123
Keglević, D.: vidi Kornhauser, A.	
Keglević, D.: vidi Ladešić, B.	
Kesler, M. and Perina, I.: A Modified Cell for Measurements of Dielectric Constant (B) . . . . .	135
Kernhauser, A. and Keglević, D.: The Preparation and Properties of Some α-Arylureidoesters (B) . . . . .	57
Krvavica, N.: vidi Glunčić, B.	
Kućan, Ž.: Activation of Ribonuclease I by Gamma Irradiation of 30 S Ribosomes from <i>Escherichia coli</i> (O) . . . . .	97
Kuhelj, F., Stanovnik, B., and Tišler, M.: Synthesis of Pyridazine Derivatives. IX. Formation of Pyridazines in the Reaction of Some Acid Anhydrides with Hydrazines (O) . . . . .	299
Kvastek, K., Strohal, P., and Despotović R.: Electrochemical Separation of Carrier-free Iron (B) . . . . .	317
Ladešić, B. and Keglević, D.: Biochemical Studies in Tobacco Plants. III. Synthesis and REM Behaviour of Potential Metabolites of D-α-Methionine (O) . . . . .	155
Lahajnar, G., Pintar, M., and Slivnik, J.: Preliminary NMR Data of Ammonium Heptafluorozirconate (B) . . . . .	63
Letić, D.: vidi Strohal, P.	
Maljković, D. and Branica, M.: An Investigation of the System: Ferric Chloride-System: Ferric Chloride-Water-Isopropyl Ether (B) . . . . .	65
Maljković, D. and Branica, M.: Equilibria of Liquid Phases in the Ternary -Hydrochloric Acid-Water-Isopropyl Ether (O) . . . . .	191
Marazović, Lj. and Pučar, Z.: Electrodialysis of <sup>56,57,58</sup> Co and <sup>65</sup> Zn in Sea Water Through Ion-Exchange Membranes (O) . . . . .	181
Matković, B., Šljukić, M., and Prodić, B.: Preparative and X-Ray Crystallographic Data on Potassium Dithorium Triphosphate, KTh <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> (B) . . . . .	69
Mirnik, M.: vidi Despotović, R.	
Mirnik, M.: vidi Filip, A.	

Nikolić, R. M. and Gal, I. J.: The Solvent Extraction of Fe (III) and U (VI) with Mixtures of Tri- <i>n</i> -octylamine and Thenoyltrifluoroacetone in Benzene and Nitrobenzene (O)	17
Orhanović, Z., Pokrić, B., Füredi, H., and Branica, M.: Precipitation and Hydrolysis of Metallic Ions. III. Studies on the Solubility of Yttrium and Some Rare Earth Hydroxides (O)	269
Perina, I.: vidi Kesler, M.	
Pešić, D. S.: Emission Spectrum of Zinc Oxide between 6000 and 5000 Å (B)	313
Petres, J., Deželić, Gj., and Težak, B.: Monodisperse Sols of Barium Sulfate. I. Preparation of Stable Sols (O)	277
Pintar, M., Porok, J., and Slivnik, J.: Fluorine Magnetic Resonance Shifts in Paramagnetic PuF <sub>3</sub> (B)	61
Pintar, M.: vidi Lahajnar, G.	
Pokrić, B.: vidi Orhanović, Z.	
Popović, S.: A Correction for the Effect of a Low Absorption Coefficient on the X-ray Line Profiles (O)	91
Popović, S.: Unit Cell Dimensions Measurement of Less Perfectly Crystallized Artificial Graphite (B)	223
Popović, S.: Crystallite Size and Lattice Distortion Determination of Graphite (B)	227
Popović, S.: vidi Despotović, R.	
Prodić, B.: vidi Matković, B.	
Pučar, Z.: vidi Marazović, Lj.	
Randić, M., Jerkunica, J. M., and Stefanović, D.: Hybridization in Several Polycyclic Alkanes by the Method of Maximum Overlap (O)	49
Simeon, VI. and Weber, O. A.: Chelation of Some Bivalent Metal Ions with Alanine and Phenylalanine (O)	161
Skurić, Z. und Weber, K.: Zur Kinetik der katalytischen Oxydation des Indols (O)	23
Slivnik, J.: vidi Lahajner, G.	
Slivnik, J.: vidi Pintar, M.	
Stanovnik, B.: vidi Kuhelj, F.	
Stefanović, D.: vidi Randić, M.	
Stojanović, V.: vidi Balenović, Z.	
Strohal, P., Letić, D., and Tuta, J.: The Precipitation of Rubidium and Caesium with Silicotungstic Acid (O)	203
Strohal, P.: vidi Kvastek, K.	
Sunko, D. E.: vidi Humski, K.	
Seke, V. and Fleš, D.: The Absolute Configuration of γ-Methyl-ε-caprolactam (O)	9
Škarić, V., Gašpert, B., and Jerkunica, I.: Hydropyrimidines. V. Isomeric Dihydro 2- and 4-Oxopyrimidines (O)	1
Šljukić, M.: vidi Matković, B.	
Straus, B. and Berkeš, I.: Transaminating Processes Involving Histidine in Human Haemolysed Erythrocytes (O)	105
Tomažić, B. and Branica, M.: Precipitation and Hydrolysis of Uranium (VI) in Aqueous Solutions. V. The Composition of Precipitates from Uranyl Nitrate — Potassium Hydroxyde — K, Ca, Sr, Ba and Eu-Nitrate Solutions (O)	249
Težak, B.: vidi Galešić, N.	
Težak, B.: vidi Petres, J.	
Tišler, M.: vidi Kuhelj, F.	
Trinajstić, N.: Molecular Orbital Calculations for Tetracene Monopositive Ion (O)	283
Trinajstić, N.: Equivalent Orbitals of NH, NH <sub>2</sub> and NH <sub>3</sub> (O)	287
Tuta, J.: vidi Strohal, P.	
Vavra, J.: vidi Deželić, Gj.	
Weber, K.: vidi Gašparec, Z.	
Weber, O. A.: vidi Simeon, VI.	