



**PHYSICAL CHEMISTRY 2010**

10<sup>th</sup> International Conference  
on Fundamental and Applied Aspects of  
Physical Chemistry

Organized by  
Society of Physical Chemists of Serbia

**PROGRAM**

**September 21-24, 2010**  
**Belgrade, Serbia**

# **PROGRAM**

# GENERAL PROGRAM

22 – 24 September

## Registration

*Registration desk will be located in the Entrance Hall of the University Building (Rectorate), and it will be opened during all time of the conference)*

## Wednesday, 22<sup>th</sup> September

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### MAIN HALL

*Opening* 10:00-10:30

*Welcome Gathering* 10.30-11.15

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### Plenary lectures (PL)

PL-1 11:15-12:00

PL-2 12:00-12:45

*Lunch Break* 12:45-14:30

### ENTRANCE HALL

**Poster presentation (P: Sections B and K)** 14:30-15:30

### A HALL

### Oral presentations (O: Sections A, E and N)

A-O-1 15:30-15:45

E-O-1 15:45-16:00

E-O-2 16:00-16:15

N-O-1 16:15-16:30

N-O-2 16:30-16:45

*Coffe Break* 16:45-17:00

## **B HALL**

### **Oral presentations (O: Section F)**

F-SL-1	15:30-16:00
F-SL-2	16:00-16:30
F-O-1	16:30-16:45

*Coffe Break* 16:45-17:00

## **ETRANCE HALL**

**Poster presentation(P: Sections C, and E)** 17:00-18:00

## Thursday, 23<sup>th</sup> September

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### ETRANCE HALL

**Poster presentation (P: Sections A, G, I, L, M, N and O)** 09:00-10:00

### MAIN HALL

**Plenary lectures (PL)**

PL-3 10:00-10:45  
PL-4 10:45-11:30

*Coffe Break* 11:30-11:45

### A HALL

**Section lectures and Oral presentations (SL and O: Sections C and D)**

C-SL-1 11:45-12:15  
C-SL-2 12:15-12:45

*Coffe Break* 12:45-13:00

C-SL-3 13:00-13:30  
C-O-1 13:30-13:45  
C-O-2 13:45-14:00  
D-O-1 14:00-14:15

### B HALL

**Section lectures and Oral presentations (SL and O: Section K)**

K-SL-1 11:45-12:15  
K-SL-2 12:15-12:45

*Coffe Break* 12:45-13:00

K-SL-3 13:00-13:30  
K-O-1 13:30-13:45  
K-O-2 13:45-14:00

*Social Program*

Afternoon

## Friday, 24<sup>th</sup> September

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### ETRANCE HALL

**Poster presentation (P: Sections D and F)** 09:00-10:00

### MAIN HALL

**Plenary lectures (PL: PL-5, PL-6)** 10:00-11:30

PL-5 10:00-10:45

PL-6 10:45-11:30

*Coffe Break* 11:30-12:00

### ETRANCE HALL

**Poster presentation (P: Sections H and J)** 12:00-13:00

### A HALL

**Section lectures and Oral presentations (SL and O: Section D)**

D-SL-1 13:00-13:30

D-SL-2 13:30-14:00

D-O-2 14:00-14:15

### B HALL

**Section lectures and Oral presentations (SL and O: Sections I, H, and J)**

I-SL-1 13:00-13:30

H-O-1 13:30-13:45

H-O-2 13:45-14:00

J-O-1 14:00-14:15

*Closing Session* 14:15 -15:00

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*Closing Social Program* 15:00-

### ***Abbreviation***

- PL** – Plenary Lecture
- SL** – Section Lecture
- O** – Oral Presentation
- P** – Poster Presentation

### **Topics**

- A.** Chemical Thermodynamics
- B.** Spectroscopy, Molecular Structure and Physical Chemistry of Plasma
- C.** Kinetics and Catalysis
- D.** Nonlinear Dynamics
- E.** Electrochemistry
- F.** Biophysical Chemistry, Photochemistry and Radiation Chemistry
- G.** Radiochemistry and Nuclear Chemistry
- H.** Material Science
- I.** Solid State Physical Chemistry
- J.** Macromolecular Physical Chemistry
- K.** Environmental Protection, Forensic Sciences and Pharmaceutical Physical Chemistry
- L.** Phase Boundaries
- M.** Complex Compounds
- N.** General Physical Chemistry
- O.** Education

### ***Oral presentations***

The Power Point presentation must be available on CD-Rom or flash memory, and prepared with Power Point for Windows XP. Optionally, laptop can be used. Overhead projector will be available also.

### ***Poster presentation***

The posters should be mounted on the board 0.80 m wide and 1.20 m high.

# DETAILED PROGRAM

Wednesday, 22<sup>th</sup> September

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## ENTRANCE HALL

8:00-10:00 **Registration**  
*Registration desk will be opened during all time of the conference*

## MAIN HALL

10:00-10:30 **Opening**

10:30-11:15 **Welcome Gathering**

11:15-12:45 **Plenary Lectures**

*Chairpersons V. Vukojević and J. Dimitrić-Marković*

11:15-12:00 **PL-1** Enrica Droghetti, Alessandro Feis,  
Barry D. Howes, Francesco, P. Nicoletti and  
Giulietta Smulevich  
**STRUCTURAL PROPERTIES OF TRUNCATED  
HEMOGLOBINS FROM UNICELLULAR  
ORGANISMS AS REVEALED BY RESONANCE  
RAMAN SPECTROSCOPY**

12:00-12:45 **PL-2** Richard G. Compton, Leigh Aldous, Aoife M.  
O'Mahony, Emma I. Rogers and F. Javier del Campo  
**ROOM TEMPERATURE IONIC LIQUIDS FOR  
ELECTROCHEMISTRY**

12:45-14:30 **Lunch Break**

## ENTRANCE HALL

*Chairpersons: N. Cvetičanin and D. Ranković*

14:30-15:30 **Poster Session (P: Sections A, B and K)**

## A HALL

*Chairpersons: B. Šljukić and D. Minić*

### Oral presentation (Sections A, E and N)

- 15:30-15:45 **A-O-1** G. Stupar, D. Popović, J. Miladinović and M. Todorović  
**PREDICTION OF CALCIUM SULFATE DIHYDRATE SOLUBILITY IN THE SYSTEM  $\text{CaSO}_4 + \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$  AT  $T = 298.15 \text{ K}$**
- 15:45-16:00 **E-O-1** Ch. Batchelor-McAuley and R. G. Compton  
**THE ELECTROCHEMISTRY OF BIOLOGICALLY RELEVANT MOLECULES; ANALYSING COMPLEX MECHANISTIC PATHWAYS**
- 16:00-16:15 **E-O-2** S. Stevanović, D. Tripković, J. Rogan, D. Minić, A. Gavrilović, A. Tripković and V. M. Jovanović  
**MICROWAVE-ASSISTED SYNTHESIS OF Pt AND  $\text{Pt}_3\text{Sn}$  ELECTROCATALYSTS FOR ETHANOL OXIDATION**
- 16:15-16:30 **N-O-1** Lj. Marjanović, R. I McCrindle and W. Augustyn  
**ANALYSIS OF HAFNIUM IN ZIRCONIUM FLUORIDE BY ICP-OES**
- 16:30-16:45 **N-O-2** R. I. McCrindle, M. Mujuru and L. Marjanovic-Bakovic  
**PHYSICO-CHEMICAL CHARACTERISTICS OF COAL SLURRIES FOR INTRODUCTION INTO AN ICP-OES**
- 16:45-17:00 **Coffee Break**

## B HALL

*Chairpersons: V. Vasić and M. Mojović*

### Oral presentation (Section F)

- 15:30-16:00 **F-SL-1** Ludmilla Morozova-Roche  
**PHYSICO-CHEMICAL MECHANISMS OF AMYLOID FORMATION-DISAGGREGATION: *in vitro* AND *ex vivo* STUDIES**

- 16:00-16:30 **F-SL-2** Vladana Vukojević, Dimitrios K. Papadopoulos, Lars Terenius, Walter J. Gehring, Rudolf Rigler  
**KINETIC STUDY OF TRANSCRIPTION FACTOR–DNA INTERACTIONS IN LIVE CELLS**
- 16:30-16:45 **F-O-1** D. Mutavdžić, A. Savić, M. Nyitrai and K. Radotić  
**STATISTICAL MODELS IN ANALYSIS OF STEADY-STATE FLUORESCENCE SPECTRA OF A PROTEIN. A NEW APPROACH IN FOLLOWING CONFORMATION TRANSITIONS**

16:45-17:00 *Coffee Break*

**ENTRANCE HALL**

*Chairpersons: A. Ivanović and N. Vukelić*

17:00-18:00 **Poster Session (P: Sections C, E and L)**

## **Thursday, 23<sup>th</sup> September**

### **ENTRANCE HALL**

*Chairpersons: M. Daković and J. Jovanović*

09:00-10:00 **Poster Session (P: Sections A, G, I, L, M, N and O)**

### **MAIN HALL**

10:00-11:30 ***Plenary Lectures***

*Chairpersons: N. Miljević and S. Milonjić*

10:00-10:45 **PL-3** D. Moscone and F. Arduini  
**BIOSENSORS AND BIOASSAYS BASED ON  
CHOLINESTERASE INHIBITION FOR PESTICIDES,  
NERVE AGENTS AND AFLATOXINS DETECTION**

10:45-11:30 **PL-4** Jovan M. Nedeljković  
**SYNTHESIS, CHARACTERIZATION AND  
POSSIBLE APPLICATIONS OF TiO<sub>2</sub>  
NANOPARTICLES**

11:30-11:45 ***Coffee Break***

### **A HALL**

*Chairpersons: D. Jovanović and D. Stanisavljev*

**Oral presentation (Sections C and D)**

11:45-12:15 **C-SL-1** Nikolaj M. Ostrovskii  
**CATALYST DEACTIVATION KINETICS.  
PROBLEMS OF DATA INTERPRETATION**

12:15-12:45 **C-SL-2** Slavcho Rakovsky  
**PHOTOCATALYTIC PROCEEDURES AT WATER  
AND AIR CLEANING**

12:45-13:00 ***Coffee Break***

- 13:00-13:30 **C-SL-3** M. Gabrovska, P. Tzvetkov, K. Tenchev, L. Spasov, J. Krstić, N. Vukelić and D. Jovanović  
**FORMATION OF THE METALLIC NICKEL PHASE IN Ni/SILICA GEL PRECURSORS OF VEGETABLE OIL HYDROGENATION CATALYSTS**
- 13:30-13:45 **C-O-1** P. Banković, A. Milutinović-Nikolić, N. Jović-Jovičić, M. Žunić, Z. Vuković and A. Abu RabiStanković  
**THE INFLUENCE OF Fe CONTENT IN Al,Fe-PILLARED CLAYS ON ITS PERFORMANCE IN CATALYTIC WET OXIDATION**
- 13:45-14:00 **C-O-2** J. Krstić, A. Krklješ and Z. Kačarević-Popović  
**SWELLING BEHAVIOR OF Ag/PVA HYDROGEL NANOCOMPOSITE SYNTHESIZED BY  $\gamma$ -IRRADIATION**
- 14:00-14:15 **D-O-1** O. Hadač, M. Kohout, I. Schreiber, V. Nevorál, M. Marek and M. Kubíček  
**STOICHIOMETRIC NETWORK APPROACH TO THE REACTION MECHANISM OF A THREE-WAY CATALYTIC CONVERTER**

## B HALL

*Chairpersons: V. Kuntić and D. Marković*

### Oral presentation (Section K)

- 11:45-12:15 **K-SL-1** R. Paschke, A. Dietrich, T. Mueller, B. Kalinowski and G. N. Kaluđerović  
**NOVEL PLATINUM COMPOUND THAT OVERCOMES CISPLATIN RESISTANCE AND INDUCES APOPTOSIS**
- 12:15-12:45 **K-SL-2** Nives Ogrinc  
**AN APPLICATION OF ENVIRONMENTAL ISOTOPES TO TRACE THE ORIGIN OF CONTAMINANTS**
- 12:45-13:00 *Coffee Break*

- 13:00-13:30 **K-SL-3** C. M. Zvinowanda, M. Sekhula, J. O. Okonkwo and N. M. Agye  
**APPLICATION OF PHYSICAL CHEMISTRY METHODS IN ENVIRONMENTAL MANAGEMENT: A STUDY OF MAIZE TASSEL SORPTION OF Pb(II) FROM AQUEOUS SOLUTION**
- 13:30-13:45 **K-O-1** M. Demajo, J. Cvetičanin, M. Stoiljković, Đ. Trpkov, V. Andrić, A. Onjia and O. Nešković  
**PELLETS FROM LONG-EARED OWLS (*Asio otus*) AS INDICATORS OF SOIL QUALITY**
- 13:45-14:00 **K-O-2** M. R. Kaluđerović, S. Gómez-Ruiz, R. Paschke, T. W. Remmerbach and G. N. Kaluđerović  
**ORGANO Gallium(III) COMPLEXES: A POTENTIAL ANTITUMOR AGENTS AGAINST THE HEAD AND NECK SQUAMOUS CELL CARCINOMA (HNSCC) CELL LINES**

*Social Program*

Afternoon

## Friday, 24<sup>th</sup> September

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### ENTRANCE HALL

*Chairpersons: P. Banković and D. Lončarević*

09:00-10:00 **Poster Session (P: Sections D and F)**

### MAIN HALL

*Chairpersons: Lj. Kolar-Anić and M. Plavšić*

10:00-11:30 *Plenary Lectures*

10:00-10:45 **PL-5** Igor Schreiber  
**FROM NONLINEAR DYNAMICS OF COMPLEX  
CHEMICAL REACTIONS TO FUNCTIONAL  
DYNAMICS OF BIOLOGICAL SYSTEMS**

10:45-11:30 **PL-6** M. Franko  
**THERMAL LENS SPECTROMETRY AS A TOOL  
FOR PHYSICO-CHEMICAL CHARACTERISATION  
OF LIQUIDS AND SOLUTIONS**

11:30-12:00 *Coffee Break*

### ENTRANCE HALL

*Chairpersons: S. Blagojević and A. Popović-Bjelić*

12:00-13:00 **Poster Session (P: Sections H and J)**

## A HALL

*Chairpersons: L. Schreiberova, N. Pejić*

### **Oral presentation (Section D)**

- 13:00-13:30 **D-SL-1** Guy Schmitz  
**CLOCK REACTIONS**
- 13:30-14:00 **D-SL-2** Ž. Čupić, V. Marković and Lj. Kolar-Anić  
**STOICHIOMETRIC NETWORKS: FROM  
REACTION ROUTES TO METABOLIC FLUXES  
AND BACKWARD**
- 14:00-14:15 **D-O-2** V. Marković, S. Jelić, V. Vukojević and Lj. Kolar-Anić  
**MODELLING THE HYPOTHALAMIC-PITUITARY-  
ADRENAL (HPA) AXIS RESPONSE TO EXTERNAL  
PERTURBATIONS WITH CORTISOL**

## B HALL

*Chairpersons: J. Budinski-Simendić, A. Milutinović-Nikolić*

### **Oral presentation (Sections I, H and J)**

- 13:00-13:30 **I-SL-1** Z. Jakšić, J. Matović and J. Buha  
**COMPOSITE NANOMEMBRANES: A MULTI-  
FUNCTIONAL PLATFORM FOR CHEMICAL  
SENSING**
- 13:30-13:45 **H-O-1** M. Vranješ, J. Kuljanin-Jakovljević, J. Nedeljković  
and Z. Šaponjić  
**PHOTOLUMINESCENCE PROPERTIES OF Eu<sup>3+</sup>  
DOPED TiO<sub>2</sub> NANOPARTICLES**
- 13:45-14:00 **H-O-2** I. Pašti, Z. Ristanović, N. Gavrilov and S. Mentus  
**DFT STUDY OF HYDROGEN ADSORPTION ON  
TRANSITION METAL SURFACES: RELATIONSHIP  
TO ELECTROCATALYSIS**

14:00-14:15 **J-O-1** J. Džunuzović, S. Jovanović, M. D. Lechner and V. Vodnik  
**RHEOLOGICAL AND THERMAL PROPERTIES OF  
BOLTORN<sup>®</sup> HYPERBRANCHED POLYESTERS**

14:15-15:00 *Closing Session*

**Closing Social Program**

# POSTERS

## A. Chemical Thermodynamics

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### A-P-1

E.V. Frantsina, J. I. Afanasjeva and E.D. Ivanchina

**DEVELOPMENT OF COMPUTER MODELING SYSTEM FOR ALKANES C<sub>9</sub>-C<sub>14</sub> DEHYDROGENATION PROCESS ON THE BASE OF THERMODYNAMIC AND KINETIC ANALYSIS**

### A-P-2

D. M. Minić, Lj. Mihajlović, A. Gavrilović, L. Rafailović and D. M. Minić

**KINETICS OF STRUCTURAL TRANSFORMATIONS OF Fe<sub>75</sub>Ni<sub>2</sub>Si<sub>8</sub>B<sub>13</sub>C<sub>2</sub> AMORPHOUS ALLOY INDUCED BY THERMAL TREATMENT**

### A-P-3

D. Popović, J. Miladinović and M. Todorović

**TEMPERATURE DEPENDENCE OF THE PITZER'S ION-INTERACTION MODEL PARAMETERS OF NaCl(AQ) AND KCl(AQ)**

### A-P-4

I. M. Stanković and Lj. Z. Kolar-Anić

**THE GENERAL APPROACH TO THE DERIVATION OF THE PARTITION FUNCTION ON THE BASIS OF GIBBS ENSEMBLE THEORY**

### A-P-5

A. Semnani, A. R. Firooz and L. Kashefi

**THERMODYNAMIC STUDY OF THE COMPLEXATION OF CRYPTAND 222 WITH TCNE IN DI AND TRICHLORO-METHANE SOLUTIONS**

## B. Spectroscopy, Molecular Structure, Physical Chemistry of Plasma

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### B-P-1

A. R. Tančić

**RESONANCES OF ENDOHEDRAL ATOMS**

**B-P-2**

J. Cvetičanin, A. Krklješ, Z. Kačarević-Popović, Đ. Trpkov, M. Cindrić and O. Nešković

**MASS SPECTROMETRIC INVESTIGATION OF SILVER CLUSTERS****B-P-3**

B. Ostojić

**HYPERBERYLLIUM MOLECULE BEOBE - *AB INITIO* CALCULATIONS OF THE POTENTIAL ENERGY SURFACES FOR THE  $X^1\Sigma_G^+$  AND  $A^3\Sigma_U^+$  ELECTRONIC STATES****B-P-4**

A. Antić-Jovanović, M. Kuzmanovic, V. Bojovic, M. A. Khakoo and R. R. Laher

**VIBRONIC BAND STRENGTH DISTRIBUTION IN THE** **$C^1\Pi_u - X^1\Sigma_g^+$  TRANSITION OF  $Ag_2$** **B-P-5**

J. M. Dimitrić Marković, Z. S. Marković, T. P. Brdarić, V. M. Pavelkić

**COMPERATIVE SPECTROSCOPIC AND MECHANISTIC STUDY OF CHELATION PROPERTIES OF BAICALEIN AND QUERCETIN WITH IRON****B-P-6**

J. M. Dimitrić Marković, Z. S. Marković, T. P. Brdarić, M. B. Jadranin

**STUDY ON FISETIN-IRON (III) INTERACTION IN AQUEOUS BUFFERED SOLUTIONS BY COMBINED SPECTROSCOPIC AND THEORETICAL METHODS****B-P-7**

S. Marković, Lj. Veselinović and D. Uskoković

**FTIR STUDY OF BIOLOGICAL HYDROXYAPATITE****B-P-8**

S. Marković, S. Radenković, Z. Marković and I. Gutman

**DIRADICAL CHARACTER OF ZETHRENES****B-P-9**

M. Cvijović, P. Đurđević, T. Anđelković, Lj. Svilar, J. C. Tabet, M. Jelikić-Stankov, A. Bojić and V. Stankov

**ELECTROSPRAY MASS SPECTROMETRY OF ALUMINIUM FLEROXACIN COMPLEXES**

**B-P-10**

M. Momčilović, D. Ranković, B. Kuzmanović, M. Kuzmanović and M. Trtica  
**OPTICAL EMISSION MEASUREMENT OF PLASMA GENERATED BY INFRARED LASER BEAM WITH CU TARGET**

**B-P-11**

B. Damnjanović, B. Petrović, J. Dimitrić-Marković and M. Petković  
**MALDI-TOF MS CHARACTERIZATION OF TRANSITION METAL COMPLEXES**

## C. Kinetics, Catalysis

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**C-P-1**

Z. Baroš

**THE INFLUENCE OF THE MOLAR RATIO  $[H_2O]/[Ti(OR)_4]$  ON THE KINETICS OF THE TITANIUM-OXO-ALKOXY CLUSTERS NUCLEATION**

**C-P-2**

Z. Miladinović and J. Zakrzewska

**DETERMINATION OF KINETIC PARAMETERS OF ZEOLITE A CRYSTALLIZATION USING *IN SITU*  $^{27}Al$  NMR SPECTROSCOPY**

**C-P-3**

A. Pavicevic, V. Radonjic, J. Jovanovic and B. Adnadjevic

**KINETICS OF SWOLLEN HYDROGEL WATER EXCHANGE WITH ETHANOL**

**C-P-4**

C. Blanco, M. J. Montero, B. Ortiz, V. Krstic, C. Pesquera, F. González and A. Perdigón

**SYNTHESIS AND CHARACTERIZATION OF CATALYSTS OF Rh SUPPORTED IN CLAYS MATERIALES. APLICATION IN THE ACETONE TRANSFORMATION**

**C-P-5**

C. Blanco, V. Krstic, B. Ortiz, C. Pesquera and F. González

**RhSn CATALYSTS FOR CROTONALDEHIDE HYDROGENATION USING CLAY'S MODIFIED LIKE SUPPORTS**

**C-P-6**

M. Gabrovska, M. Shopska, D. Nikolova, D. Simeonov, J. Krstić, M. Stanković and D. Jovanović

**EFFECT OF THE SUPPORT ON THE COMPONENTS INTERACTION IN THE Ni/SILICA GEL PRECURSORS OF VEGETABLE OIL HYDROGENATION CATALYSTS**

**C-P-7**

D. Nikolova, D. Simeonov, L. Spasov, D. Lončarević, Pl. Stefanov and D. Jovanović

**Ni-SILICA GEL VEGETABLE OIL HYDROGENATION CATALYSTS: SURFACE STATE OF THE PRECURSORS**

**C-P-8**

I. Y. Petrov and B. G. Tryasunov

**FORMATION OF  $\text{Cr}_x\text{Al}_{2-x}(\text{MoO}_4)_3$  SOLID SOLUTIONS IN  $\text{Cr}_2\text{O}_3/\text{Al}_2(\text{MoO}_4)_3$  CATALYSTS AND THEIR ACTIVITIES IN ISOPENTENES DEHYDROGENATION**

**C-P-9**

S. Petrović, Z. Vuković, T. Novaković, Z. Nedić and Lj. Rožić

**THE FRACTAL ANALYSIS OF 12-TUNGSTOPHOSPHORIC ACID / ACID ACTIVATED BENTONITE CATALYST BY USING NITROGEN SORPTION AND MERCURY INTRUSION POROSIMETRY**

**C-P-10**

V. P. Petrović, S. Marković and Z. D. Petrović

**NEW ASPECTS OF THE HECK CATALYST FORMATION**

**C-P-11**

M. Radoičić, I. Janković, V. Despotović, D. Šojić, Z. Šaponjić, B. Abramović<sup>2</sup> and M. I. Čomor

**PHOTOCATALYTIC ACTIVITY OF  $\text{TiO}_2$  NANOPARTICLES MODIFIED WITH DOPAMINE**

**C-P-12**

M. Radoičić, Z. Šaponjić, G. Ćirić-Marjanović, J. M. Nedeljković and M. Čomor

**PHOTOCATALYTIC PROPERTIES OF POLYANILINE/ $\text{TiO}_2$  NANOCOMPOSITE**

**C-P-13**

E. V. Urzhumova, L. M. Velichkina and A. V. Vosmerikov

**EFFECT OF MECHANICAL TREATMENT ON THE CATALYTIC ACTIVITY OF ZEOLITE IN THE COURSE OF HYDROCARBON CONVERSION**

**C-P-14**

D. V. Veličković, A. S. Dimitrijević, F. J. Bihelovic, R. M. Jankov and N. Milosavić

**INFLUENCE OF HYDROXYBENZYL ALCOHOL ISOMERS ON KINETIC PARAMETERS FOR TRANSGLYCOSYLATION REACTION CATALYSED BY ALPHA GLUCOSIDASE**

**C-P-15**

A. V. Vosmerikov, V. I. Zaikovskii, L. L. Korobitsyna, N. V. Arbuzova, V. V. Kozlov, Ya. E. Barbashin and S. P. Zhuravkov

**NONOXIDATIVE CONVERSION OF METHANE INTO AROMATIC HYDROCARBONS ON Ag–Mo/ZSM-5 CATALYSTS**

**C-P-16**

A. V. Vosmerikov and L. N. Vosmerikova

**KINETIC MECHANISMS OF CONVERSION OF NATURAL GAS COMPONENTS INTO AROMATIC HYDROCARBONS**

**C-P-17**

I. Vučinić, I. Spasojević, A. Ignjatović and M. Mojović

**THE COMPARATIVE ANALYSIS OF COMMONLY USED SPIN-TRAPS FOR DETECTION OF SUPEROXIDE RADICAL**

**C-P-18**

S. Rakovsky, M. Anachkov, V. Iliev, A. Elias and G. Li Puma

**OZONATION PRODUCTS DURING PURIFICATION OF WASTEWATERS POLLUTED BY ORGANICS**

**C-P-19**

B. Adnadjević and J. Jovanović

**ACID HYDROLYSES OF LIGNOCELLULOSES MATERIAL C-P-12**

**C-P-20**

B. Adnadjević and J. Jovanović

**CONTINUAL TRANSESTERIFICATION OF ALGAE OIL IN A HYDRODYNAMIC CAVITATION REACTOR**

**C-P-21**

N. Jović-Jovičić, M. Žunić, P. Banković, Z. Mojović, A. Milutinović-Nikolić, B. Dojčinović and I. Gržetić

**KINETICS OF ADSORPTION OF MIXED POLLUTANTS BY ORGANO-BENTONITE**

**C-P-22**

D. Maksin, A. Nastasović, Z. Sandić and Lj. Suručić

**HEXA-VALENT CHROMIUM SORPTION BY GLYCIDYL METHACRYLATE BASED COPOLYMER**

**C-P-23**

N. Pannetier, J.-B. Sortais, L. Barloy, Hans de Vries, M. Pfeffer and C. Sirlin

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