

Chimica Techno Acta (eISSN 2411-1414)

Scientific and Technical Open Access Journal

Distributed for free

Established in 2014/Published four times per year

2021 | Vol. 8 | No. 2

This issue was published on 04.07.2021

Founded and published by Ural Federal University

19 Mira St., Ekaterinburg, 620002, Russia

Editorial Board

Editor-in-Chief

Andrey Yu. Zuev, Ural Federal University, Ekaterinburg, Russia

Editors

Evgeny V. Antipov, Moscow State University, Moscow, Russia

Vladimir A. Cherepanov, Ural Federal University, Ekaterinburg, Russia

Antoine Maignan, CRISMAT Laboratory, ENSICAEN, Caen, France

Dmitry A. Medvedev, Institute of High Temperature Electrochemistry, Ekaterinburg, Russia

Ekaterina Kozlova, Boreskov Institute of Catalysis, Novosibirsk, Russia

Panagiotis Tsiakaras, University of Thessaly Greece, Greece

Shuqin Song, Sun Yat-sen University, Guangzhou, China

Yi Wang, Sun Yat-sen University, Guangzhou, China

Zhi-Jin Fan, Nankai University, Tianjin, China

Victor V. Gusarov, Ioffe Institute, Saint Petersburg, Russia

Vladislav V. Kharton, Institute of Solid State Physics, Chernogolovka, Russia

Alexander A. Mikhailovsky, University of California, Santa Barbara, United States

Vladimir V. Pankov, Belarusian State University, Minsk, Belarus

Sougata Santra, Ural Federal University, Ekaterinburg, Russia

Nadezda V. Tarakina, Fritz Haber Institute, Berlin, Germany

Grigory V. Zyryanov, Ural Federal University, Ekaterinburg, Russia

Managing Editor

Tatiana A. Pospelova (Ekaterinburg, Russia)

Copyeditor

Vladimir V. Sereda (Ekaterinburg, Russia)

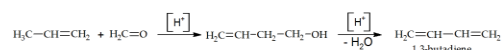
Contents

20218201

ARTICLE / Regular Issue

T.M. Kutuzova, O.M. Kuznetzova, R.A. Akhmedyanova

Cation-exchange resins as heterogeneous catalysts for the synthesis of 1,3-butadiene from propylene and formaldehyde

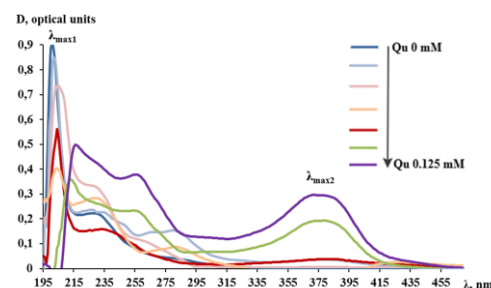


20218202

ARTICLE / Regular Issue

S.S. Khizrieva, E.V. Vetrova, S.N. Borisenko,
E.V. Maksimenko, N.I. Borisenko

Synthesis and study of complexes of the novel Russian antiviral drug Camphecene with Plant's Flavonoids

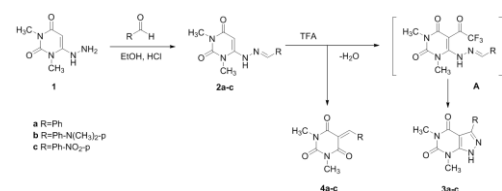


20218203

ARTICLE / Regular Issue

Yu.A. Azev, O.S. Koptyaeva, T.A. Pospelova

New possibilities of the functionalization of 6-hydrazino-1,3-dimethyluracils: one-pot synthesis of 5,7-dimethylpyrazolopyrimidine-4,6-dione and 1,3-dimethyl-5-arylidenebarbituric acid derivatives

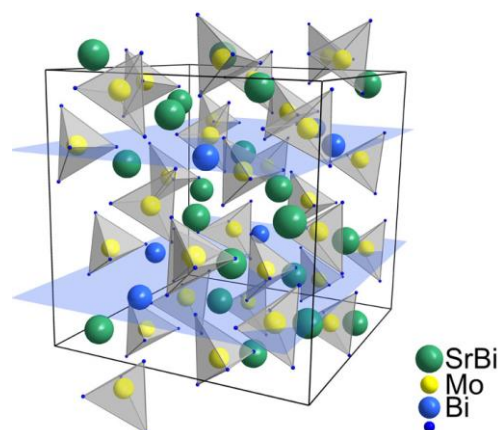


20218204

ARTICLE / Regular Issue

Z.A. Mikhaylovskaya, E.S. Buyanova,
S.A. Petrova, A.V. Klimova

ABO₄ type scheelite phases in (Ca/Sr)MoO₄ - BiVO₄ - Bi₂Mo₃O₁₂ systems: synthesis, structure and optical properties

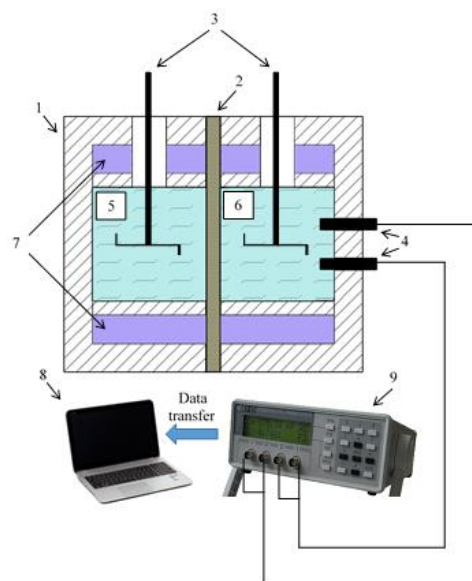


20218205

ARTICLE / Regular Issue

D.V. Davidov, E.N. Nosova, S.A. Loza,
A.R. Achoh, A.N. Korzhov, S.S. Melnikov

Using a microheterogeneous model
to assess the applicability of ion-exchange membranes
in the process of reverse electrodialysis

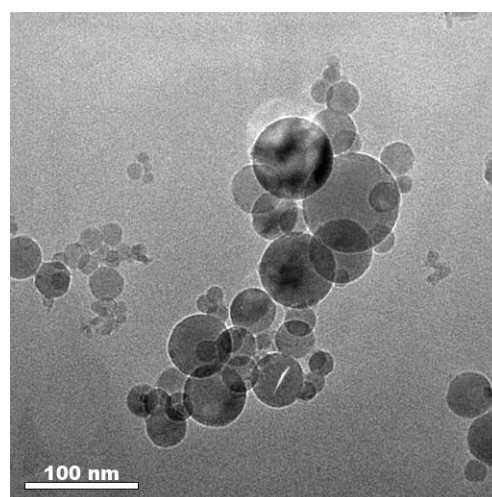


20218206

ARTICLE / Regular Issue

E.G. Kalinina, D.S. Rusakova, E.Yu. Pikalova

Electrophoretic deposition of coatings and bulk
compacts using magnesium-doped
aluminum oxide nanopowders

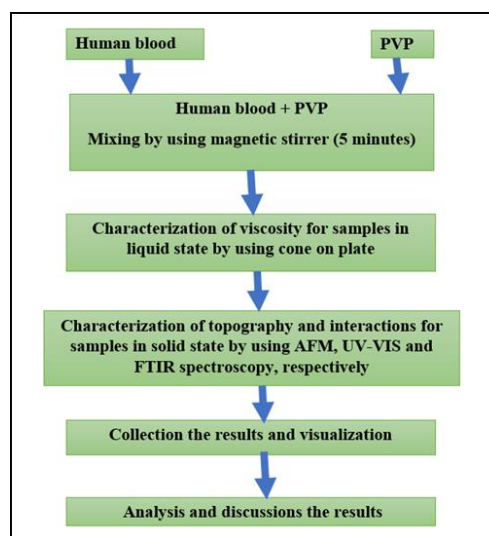


20218207

ARTICLE / Regular Issue

Akram Jassim Jawad, Auda J. Braihi

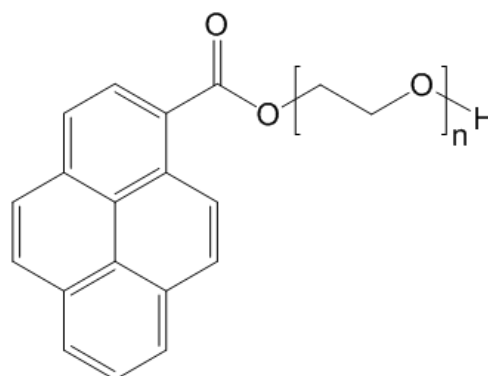
Physical and Chemical Characterization
of Drag Reducing Polymer
Based on Polyvinylpyrrolidone (PVP)
in Human Blood Flow



20218208

LETTER / Regular Issue

I.S. Kovalev, L.K. Sadieva, O.S. Taniya, D.S. Kopchuk,
G.V. Zyryanov, E.N. Ulomsky, V.L. Rusinov,
O.N. Chupakhin



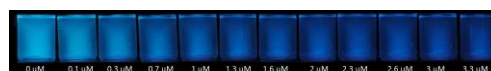
$n = 3$ (1)
 $n = 4$ (2)

Detection of Anti-viral Drug Riamilovir and Herbicides in Aqueous Media by Using Pyrene-based Fluorescent Chemosensors

20218209

LETTER / Regular Issue

I.S. Kovalev, L.K. Sadieva, O.S. Taniya, V.M. Yurk,
A.S. Minin, D.S. Kopchuk, G.V. Zyryanov,
V.N. Charushin, O.N. Chupakhin



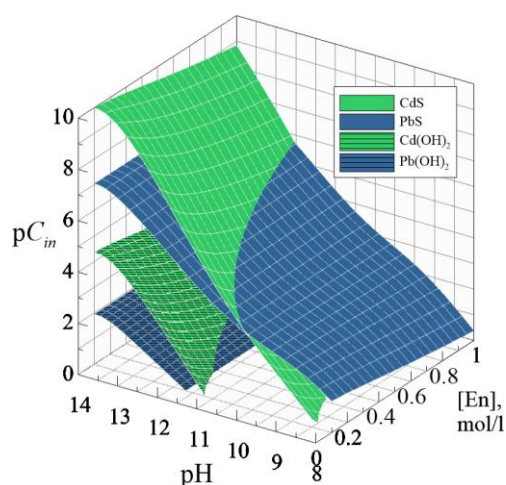
Bispyrenylalkane Chemosensor for the Naked-eye Detection of Nitro-explosives

20218210

ARTICLE / Regular Issue

A.D. Kut'yavina, L.N. Maskaveva, V.I. Voronin,
I.A. Anokhina, V.F. Markov

Morphological and structural features of the $\text{Cd}_x\text{Pb}_{1-x}\text{S}$ films obtained by CBD from ethylenediamine-citrate bath



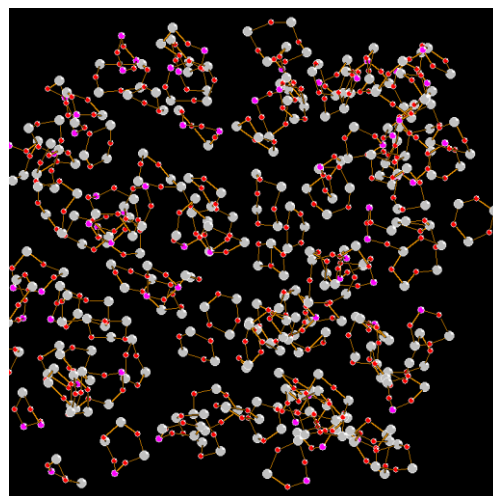


20218211

ARTICLE / Regular Issue

A.A. Raskovalov, N.S. Saetova, I.S. Popov

Structural changes in V_2O_5 - P_2O_5 glasses: non-constant force field molecular dynamics and IR spectroscopy



20218212

CORRIGENDUM

A.D. Kutyavina, L.N. Maskaveva, V.I. Voronin,
I.A. Anokhina, V.F. Markov

**Corrigendum to
Morphological and structural features
of the $Cd_xPb_{1-x}S$ films obtained by CBD
from ethylenediamine-citrate bath**