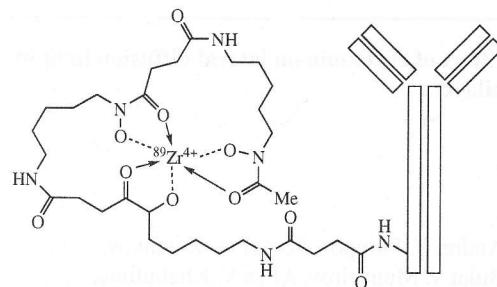


Mendeleev Communications

CONTENTS

FOCUS ARTICLE

- 85 The next generation of positron emission tomography radiopharmaceuticals labeled with non-conventional radionuclides

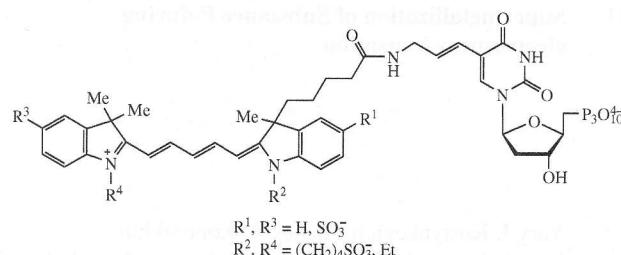


Raisa N. Krasikova, Ramiz A. Aliev,
Stepan N. Kalmykov

COMMUNICATIONS

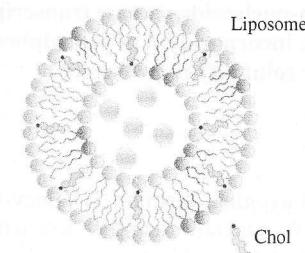
- 95 Novel fluorescently labeled nucleotides: synthesis, spectral properties and application in polymerase chain reaction

Viktoriya E. Kuznetsova, Maksim A. Spitsyn,
Valeriy E. Shershov, Teimur O. Guseinov,
Evgeniy E. Fesenko, Sergey A. Lapa,
Anna Yu. Ikonnikova, Mariya A. Avdonina,
Tatyana V. Nasedkina, Alexander S. Zasedatelev,
Alexander V. Chudinov



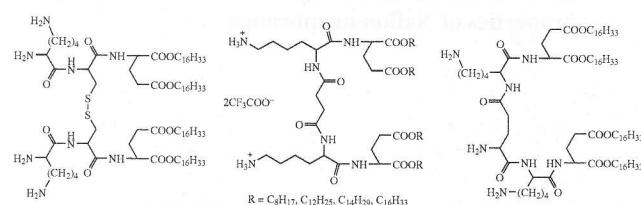
- 99 Effect of cholesterol on the phase state and permeability of mixed liposomes composed of anionic diphaspatidylglycerol and zwitterionic dipalmitoylphosphatidylcholine

Anna A. Efimova, Stepan N. Kostenko,
Viktor N. Orlov, Alexander A. Yaroslavov



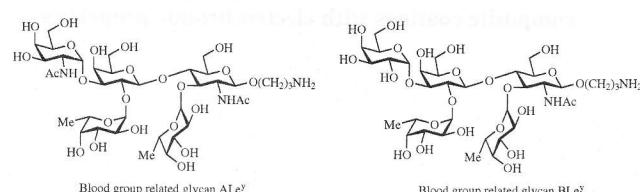
- 101 Properties and transfection activity of cationic dimeric amphiphiles based on amino acids

Ul'yan A. Budanova, Varvara V. Marusova,
Yuriii L. Sebyakin

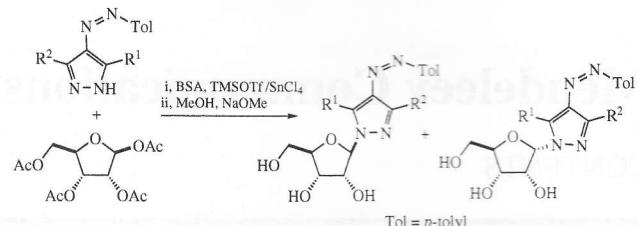


- 103 Synthesis of blood group pentasaccharides ALe^y , BLe^y and related tri- and tetrasaccharides

Galina V. Pazynina, Svetlana V. Tsygankova,
Marina A. Sablina, Alexander S. Paramonov,
Andrey A. Formanovsky, Nicolai V. Bovin

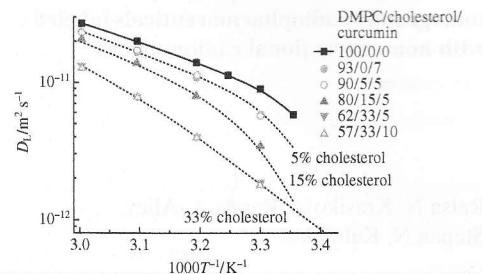


106 Non-natural nucleosides bearing 4-aryldiazenyl-pyrazole aglycone



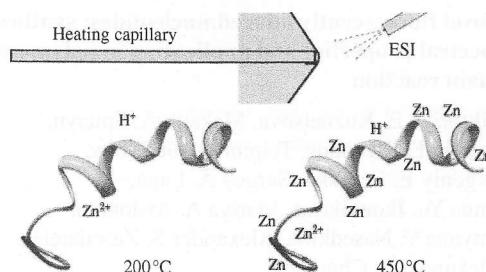
Anna E. Ivanova, Yanina V. Burgart, Viktor I. Saloutin

109 Effect of curcumin on lateral diffusion in lipid bilayers



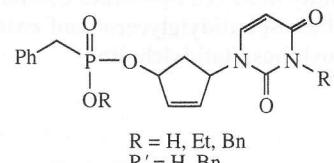
Andrei V. Filippov, Sergey A. Kotenkov, Bulat V. Munavirov, Aliya V. Khaliullina, Oleg I. Gnezdilov, Oleg N. Antzutkin

111 Supermetallization of Substance P during electrospray ionization



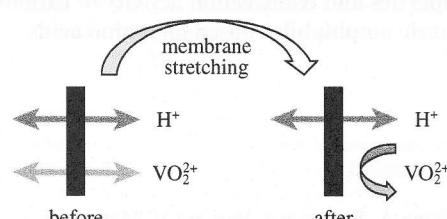
Yury I. Kostyukevich, Alexey S. Kononikhin, Igor A. Popov, Maria I. Indeykina, Eugene N. Nikolaev

114 HIV-1 non-nucleoside reverse transcriptase inhibitors: incorporation of benzylphosphonate moiety for solubility improvement



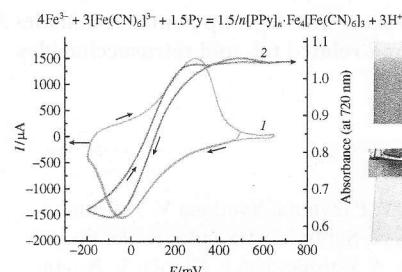
Elena S. Matyugina, Vladimir T. Valuev-Elliston, Alexander O. Chizhov, Sergei N. Kochetkov, Anastasia L. Khandazhinskaya

117 Effect of biaxial stretching on the ion-conducting properties of Nafion membranes



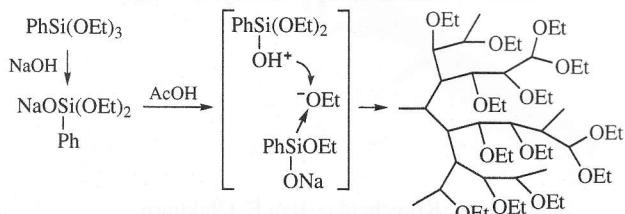
Evgeny A. Karpushkin, Mikhail V. Artemov, Vladimir G. Sergeyev

119 Nanostructured Prussian Blue-polypyrrole composite coatings with electrochromic properties



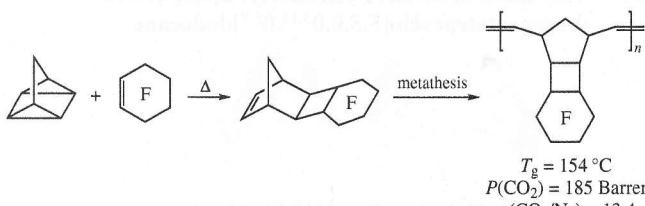
Natalia V. Talagaeva, Ekaterina V. Zolotukhina, Polina A. Pisareva, Mikhail A. Vorotyntsev

121 Acyclic polyphenylsilsesquioxane: synthesis and properties



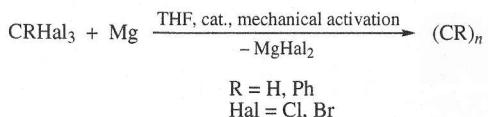
Maxim N. Temnikov, Mikhail I. Buzin,
Nina V. Demchenko, Georgii V. Cherkaev,
Nataliya G. Vasilenko, Aziz M. Muzaferov

124 A new cycloadduct based on quadricyclane and perfluorocyclohexene: synthesis, metathesis polymerization and gas-transport properties of the obtained polymer



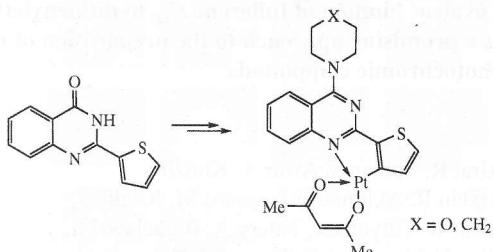
Ilya L. Borisov, Timur R. Akmalov, Andrey O. Ivanov,
Vladimir V. Volkov, Eugene Sh. Finkelshtein,
Maxim V. Bermeshev

127 Improved synthesis of polycarbynes



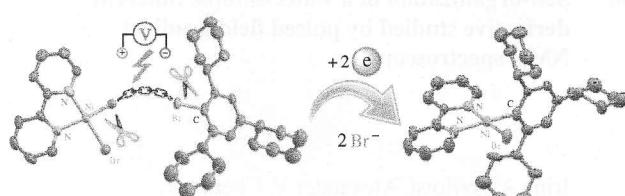
Tamara M. Zvukova, Aleksandr I. Sizov,
Boris M. Bulychev

129 Cyclometallated Pt^{II} complexes of 2-(2-thienyl)-4-(cycloalkylimino)-substituted quinazolines



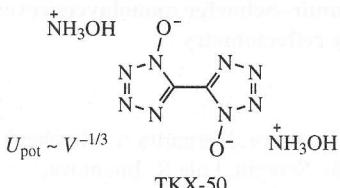
Emiliya V. Nosova, Tatyana N. Moshkina,
Dmitry S. Kopchuk, Galina N. Lipunova,
Pavel A. Slepukhin, Valery N. Charushin

131 First example of organonickel complex bearing three cyclic substituents in the σ-bonded aromatic ring: bromo[(2,2'-bipyridine)-2,4,6-tricyclohexylphenyl-nickel]

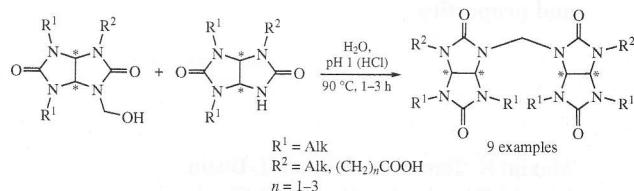


Il'yas F. Sakhapov, Zufar N. Gafurov, Vasily M. Babaev,
Ildar Kh. Rizvanov, Alexey B. Dobrynin,
Dmitry B. Krivolapov, Khasan R. Khayarov,
Oleg G. Sinyashin, Dmitry G. Yakhvarov

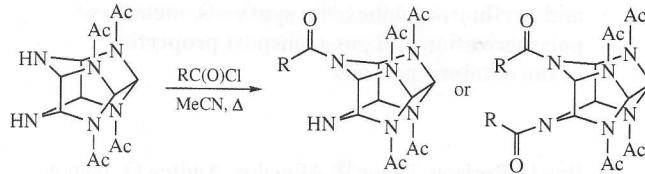
134 Calculated enthalpies of formation of 5,5'-bitetrazole salts



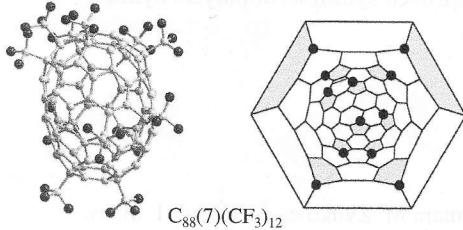
Dmitry V. Khakimov, Tatyana S. Pivina



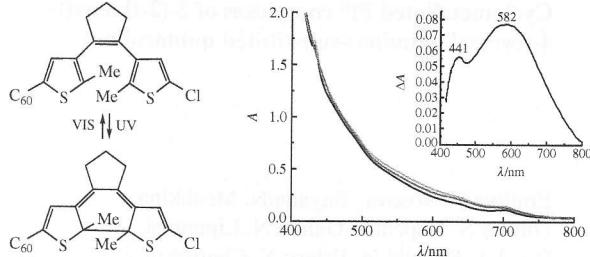
Angelina N. Kravchenko, Ilya E. Chikunov,
Galina A. Gazieva, Nina N. Makhova

139 Acylation of 2,6,8,12-tetraacetyl-2,4,6,8,10,12-hexaazatetracyclo[5.5.0.0^{3,11}.0^{5,9}]dodecane

Darya A. Kulagina, Sergei V. Sysolyatin,
Valery V. Malykhin, Aleksandr I. Kalashnikov

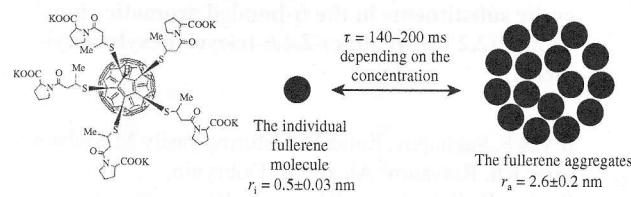
141 Synthesis and X-ray structure of C₈₈(7)(CF₃)₁₂/16

Nadezhda B. Tamm, Sergey I. Troyanov

143 Covalent binding of fullerene C₆₀ to dithienylethene as a promising approach to the preparation of new photochromic compounds

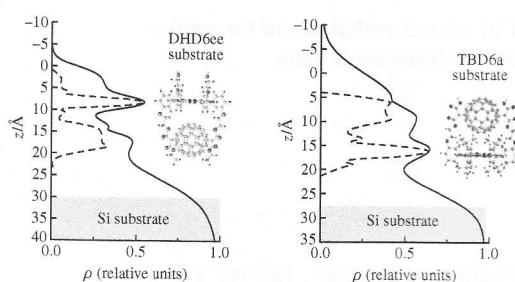
Airat R. Tuktarov, Artur A. Khuzin,
Arslan R. Akhmetov, Leonard M. Khalilov,
Artur R. Tulyabaev, Valery A. Barachevskii,
Olga V. Venediktova, Usein M. Dzhemilev

146 Self-organization of a water-soluble fullerene derivative studied by pulsed field gradient NMR spectroscopy



Irina A. Avilova, Alexander V. Chernyak,
Alexander V. Zhilenkov, Pavel A. Troshin,
Vitaly I. Volkov

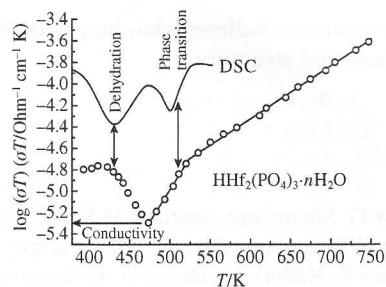
149 Orientation of donor–acceptor dyad molecules in Langmuir–Schaefer monolayers revealed by X-ray reflectometry



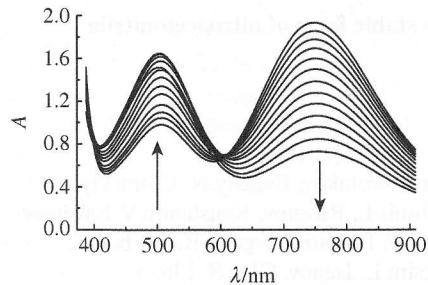
Yulia A. Dyakova, Margarita A. Marchenkova,
Alexey Yu. Seregin, Lala R. Imamova,
Elena Yu. Tereschenko, Vera V. Klechkovskaya,
Alexander S. Alekseev, Mikhail V. Kovalchuk

152 Phase transitions and proton conductivity in hafnium hydrogen phosphate with the NASICON structure

Darya Yu. Voropaeva, Mariya A. Moshareva, Andrey B. Il'in, Svetlana A. Novikova, Andrey B. Yaroslavtsev



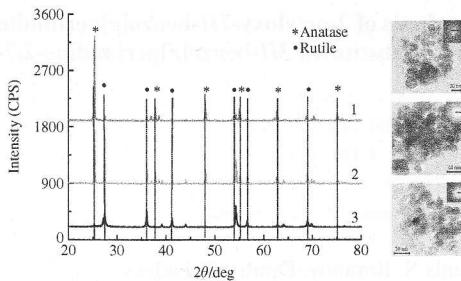
154 Unusual stability of anionic associates in mixed solvents



Aleksandra A. Krotova, Vitalii Yu. Kotov

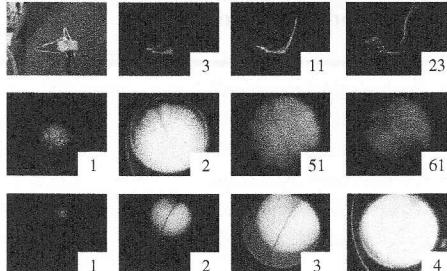
157 Synthesis of polymorphic titanium oxide nanoparticles by a rapid gas-phase chemical reaction

Ning Luo, Hong Wen Jing, Zhan Guo Ma, Weidong Liu, Liangchi Zhang, Guilei Sun



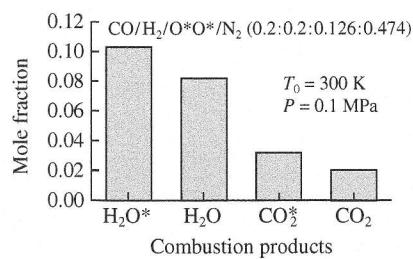
160 Cellular combustion and delay periods of ignition of a nearly stoichiometric H₂-air mixture over a platinum surface

Nikolai M. Rubtsov, Alexey N. Vinogradov, Alexander P. Kalinin, Alexey I. Rodionov, Kirill Ya. Troshin, Georgii I. Tsvetkov, Victor I. Chernysh



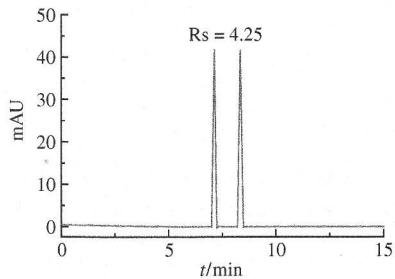
163 Numerical study of the distribution of oxygen atoms in the combustion products of CO/H₂/air flames

Valery A. Bunev, Vladimir M. Shvartsberg, Vyacheslav S. Babkin

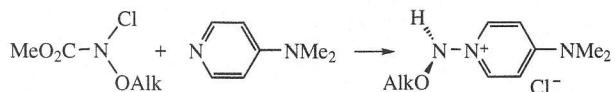


166 Chiral separation and quantitative analysis of citalopram by modified capillary electrophoresis

Yanjie Dong, Qianqian Li, Junwei Wang, Lu Lu, Yufang Wang, Linghong Bao, Zhongling Wang, Yuanguang Zhang

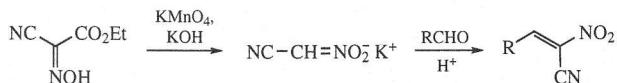


169 1-Alkoxyamino-4-dimethylaminopyridinium salts:
synthesis and structure



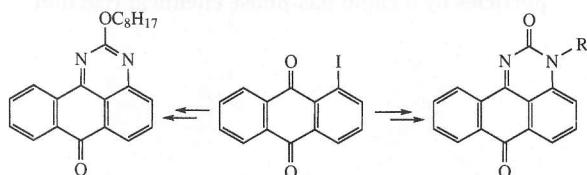
Vasiliy G. Shtamburg, Svetlana V. Shishkina,
Victor V. Shtamburg, Alexander V. Mazepa,
Gulnara K. Kadorkina, Remir G. Kostyanovsky

172 New stable form of nitroacetonitrile



Egor K. Voinkov, Evgeny N. Ulomskiy,
Vladimir L. Rusinov, Konstantin V. Savateev,
Victor V. Fedotov, Evgeny B. Gorbunov,
Maksim L. Isenov, Oleg S. Eltsov

174 Synthesis of 2-octyloxy-7*H*-benzo[*e*]perimidin-7-one and 3-substituted 3*H*-benzo[*e*]perimidine-2,7-diones



Denis S. Baranov, Dmitry S. Fadeev

176 Additions and Corrections