

JOURNAL OF THE CHEMICAL SOCIETY

Chemical Communications

Number 17
1991

CONTENTS

K. Y. Faridoon, Hua-Yun Zhuang, A. Geoffrey Sykes	1141	Kinetic Studies on the Two-stage Activation of Aconitase
Jens Weitkamp, Karin Schäfer, Stefan Ernst	1142	Selective Adsorption of Diastereoisomers in Zeolites
Claude Villiers, Raymond Adam, Monique Lance, Martine Nierlich, Julien Vigner, Michel Ephritikhine	1144	Uranium Pinacolates as Intermediates in the Reductive Coupling of Ketones; X-Ray Crystal Structure of a thf Solvate of the Uranium Bisbenzopinacolate U(Ph ₄ C ₂ O ₂) ₂ (thf) ₂ (thf = tetrahydrofuran)
Kazuhiko Tanaka, Hideki Matsuura, Ikuo Funaki, Hitomi Suzuki	1145	Stereo- and Regio-selective Synthesis of Polyfunctionalized Cyclopropanes
Michael B. Hursthouse, Muhammed A. Mazid, Stephen D. Robinson, Arvind Sahajpal	1146	Amide Metallation Reactions: Synthesis and X-Ray Crystal Structures of [Ru(NHCOCF ₃) ₂ (H ₂ O)(CO)(PPh ₃) ₂], [(Ph ₃ P)(OC)Ru(μ-NHCOC ₆ H ₄ -o)(μ-NHCOPh)(μ-H)Ru(CO)(PPh ₃) ₂] and [Ru ₂ (μ-Cl)(μ-H)(μ-NHCOCF ₃) ₂ (PPh ₃) ₄]
Richard A. Bissell, A. Prasanna de Silva	1148	Phosphorescent PET (Photoinduced Electron Transfer) Sensors: Prototypical Examples for Proton Monitoring and a 'Message in a Bottle' Enhancement Strategy with Cyclodextrins
Athelstan L. J. Beckwith, René Hersperger, Jonathon M. White	1151	Highly Diastereoselective Addition Reactions of a Radical Derived from a β-Ethoxycarbonyl Sulphoxide
Marc Lemaire, Alain Guy, Rodolphe Chomel, Jacques Foos	1152	Dicyclohexano-18-crown-6 Ether: A New Selective Extractant for Nuclear Fuel Reprocessing
Kyosuke Satake, Ryoichi Okuda, Michiaki Hashimoto, Yasushi Fujiwara, Izumi Watadani, Hideki Okamoto, Masaru Kimura, Shiro Morosawa	1154	Synthesis and Characterization of 2 <i>H</i> -, 3 <i>H</i> - and 4 <i>H</i> -Azepine: The First Observation of the Thermal Distribution Equilibrium of Azepines
Kock-Yee Law, F. Court Bailey	1156	A New Approach to Symmetrical and Unsymmetrical Photoconductive Squaraines
V. R. Choudhary, S. T. Chaudhari, M. Y. Pandit	1158	Highly Stable Li-doped Magnesium Oxide Catalyst for Oxidative Conversion of Methane to Higher Hydrocarbons
Jack M. Harrowfield, Mark I. Ogden, William R. Richmond, Allan H. White	1159	Calixarene-capped Caesium: A Coordination Conundrum?
Gautam Prakash, Eric T. Kool	1161	Molecular Recognition by Circular Oligonucleotides. Strong Binding of Single-stranded DNA and RNA
Stephen M. Godfrey, David G. Kelly, Charles A. McAuliffe, Anthony G. Mackie, Robin G. Pritchard, Susan M. Watson	1163	The Structure of Triphenylphosphorus-Diiodine, Ph ₃ PI ₂ , the First Crystallographically Characterised Dihalogen Derivative of a Tertiary Phosphine
Christopher J. Groombridge, M. John Perkins	1164	High Resolution NMR of a Solid Organic Free Radical: ¹³ C, ² H and ¹ H Magic Angle Spinning of 4-Hydroxy-2,2,6,6-tetramethylpiperidine 1-Oxyl (TEMPO)
Patrick Veya, Carlo Floriani, Angiola Chiesi-Villa, Carlo Guastini	1166	The <i>O</i> -bonded Monometallic and <i>O</i> - and <i>C</i> -bonded Dimetallic Form of <i>N,N</i> -Diphenylacetamide Enolate with Transition Metals: X-Ray Structure of [Ph ₂ -N-C(CH ₂)OZr(η ⁵ -C ₅ H ₅) ₂ (Cl)] and [Ph ₂ N-C(CH ₂ Cr(CO) ₅)OZr(η ⁵ -C ₅ H ₅) ₂ (Cl)]
Masataka Ihara, Shuichi Suzuki, Nobuaki Taniguchi, Keiichiro Fukumoto, Chizuko Kabuto	1168	A Novel Construction of Polyfunctionalised <i>trans</i> -Hydroindanes via Sulphur-mediated Intramolecular Double Michael Type Reaction
Martin W. Brechbiel, C. Greg Pippin, Thomas J. McMurry, Diane Milenic, Mario Roselli, David Colcher, Otto A. Gansow	1169	An Effective Chelating Agent for Labelling of Monoclonal Antibody with ²¹² Bi for α-Particle Mediated Radioimmunotherapy
David C. Ware, William R. Wilson, William A. Denny, Clifton E. F. Rickard	1171	Design and Synthesis of Cobalt(III) Nitrogen Mustard Complexes as Hypoxia Selective Cytotoxins. The X-Ray Crystal Structure of Bis(3-chloropentane-2,4-dionato)(<i>RS</i> - <i>N,N'</i> -bis(2-chloroethyl)ethylenediamine)cobalt(III) Perchlorate, [Co(Clacac) ₂ (bce)]ClO ₄

Hiroshi Kosugi, Kunihide Hoshino, Hisashi Uda	1173	Cyclisation of Polyenic β -Keto Sulphoxides. A Novel Route to Optically Active Intermediates for Cyclic Terpenoid Synthesis
Michael J. Annen, Mark E. Davis, John B. Higgins, John L. Schlenker	1175	VPI-7: The First Zincosilicate Molecular Sieve Containing Three-membered T-Atom Rings
Yulin Hu, Robert J. Hight, Dominique Marion, Herman Ziffer	1176	Microbial Hydroxylation of a Dihydroartemisinin Derivative
Ian R. Dunkin, Michael A. Lynch, A. J. Boulton, Neil Henderson	1178	1,2-Dinitrosobenzene in Argon Matrices at 14 K
Shin-ichi Kugimiya, Tarik Lazrak, Mireille Blanchard-Desce, Jean-Marie Lehn	1179	Electron Conduction across Vesicular Bilayer Membranes induced by a Caroviologen Molecular Wire
Sylvain Claude, Jean-Marie Lehn, Frédéric Schmidt, Jean-Pierre Vigneron	1182	Binding of Nucleosides, Nucleotides and Anionic Planar Substrates by Bis-Intercaland Receptor Molecules
Yasuyuki Hashidoko, Satoshi Tahara, Junya Mizutani	1185	Intermediates in the Autoxidation of a Non-conjugated Cyclic Diene
Martin J. P. Harger, P. Andrew Shimmin	1187	Photolysis of Phenylphosphinic Azides having <i>ortho</i> Alkyl Substituents: Intramolecular Nitrene Insertion into C-H Bonds
Yeung H. Park, Geoffrey L. Price	1188	Potassium Promoter for Palladium on Alumina Selective Hydrogenation Catalysts
Helena Gremberg, Vratislav Langer, Jan-E. Bäckvall	1190	Structure and Reactivity of <i>cis</i> - and <i>trans</i> -Bis-[{5-carbomethoxy-(1,2,3- η)-cyclohexenyl}palladium]. Evidence for a (σ -Allyl)palladium Intermediate in the <i>cis</i> -Migration of Acetate from Palladium to Coordinated π -Allyl
Klaus Horchler von Locquenghien, Régis Réau, Guy Bertrand	1192	The First Nitrogen NMR Spectroscopic Study of Nitrile Imides (Nitrilimines)
Renée Cloutier, Mario Leclerc	1194	Poly(3,3'-dibutoxy-2,2'-bithiophene): a New Highly Conjugated Polythiophene Derivative
Ayako Ogawa, Shin-Chol Oh, Shin-ichi Satoh, Yasuhiko Shirota	1195	A Striking Solvent Effect on the Photochemical Reaction of Naphthalene with 2-(Diethylamino)ethanol
U. T. Bhalerao, L. Dasaradhi, P. Neelakantan, N. W. Fadnavis	1197	Lipase Catalysed Regio- and Enantio-selective Hydrolysis: Molecular Recognition Phenomenon and Synthesis of (<i>R</i>)-Dimorphemic Acid
Brigitte Berger, Kurt Faber	1198	'Immunization' of Lipase against Acetaldehyde emerging in Acyl Transfer Reactions from Vinyl Acetate
Yukie Mori, Koko Maeda	1200	Novel Photochemical Rearrangement of 2,4,4,6-Tetraphenylpyridin-3(<i>4H</i>)-one to an Oxazole Derivative
Ron Frim, Gil Zilber, Mordecai Rabinovitz	1202	Helicene Dianions: The Effect of Charge on the Barrier to Racemisation
Nagao Kobayashi	1203	A Rigid, Laterally-bridged Binuclear Subphthalocyanine: the First Dimer of Aromatic Macroyclic Complexes containing Boron
Pierre-André Pittet, Gerald S. Laurence, Stephen F. Lincoln, Mary L. Turonek, Kevin P. Wainwright	1205	Intramolecular Exchange between Square Antiprismatic Enantiomers of the Pendant Arm Macroyclic Ligand Complex <i>N,N',N'',N'''</i> -Tetrakis(2-hydroxyethyl)-1,4,7,10-tetraazacyclododecanelead(II)
Ana M. Gomez, Serafin Valverde, Bert Fraser-Reid	1207	A Route to Unsaturated Spiroketsals from Phenylthio Hex-2-enopyranosides via Sequential Alkylation, Allylic Rearrangement and Intramolecular Glycosidation
Tetsuo Okada	1209	Thermodynamic Origin of Selectivity in Polyoxyethylene Complexes with Alkali Cations
Zhen-hua Zhou, Tsukasa Maruyama, Takaki Kanbara, Tomiki Ikeda, Kunihiro Ichimura, Takakazu Yamamoto, Koichi Tokuda	1210	Unique Optical and Electrochemical Properties of π -Conjugated Electrically Conducting Copolymers Consisting of Electron-withdrawing Pyridine Units and Electron-donating Thiophene Units
Fumio Toda, Koichi Okuda	1212	A Novel Preparative Method for Unsymmetrical Ethers by the Reaction of Cocrystals of Two Similarly Substituted Secondary Alcohols with Toluene- <i>p</i> -sulphonic Acid in the Solid State
Jusong Xia, Zhongsheng Jin, Wenqi Chen	1214	Synthesis and Crystal Structure of a new Lanthanide Cyclooctatetraene Complex ($\eta^8\text{-C}_8\text{H}_8$)Er($\mu\text{-}\eta^8\text{-C}_8\text{H}_8$)K($\mu\text{-}\eta^8\text{-C}_8\text{H}_8$)Er($\mu\text{-}\eta^8\text{-C}_8\text{H}_8$)K(THF) ₄
Anne-Sofie Carlström, Torbjörn Frejd	1216	A Short Synthesis of a Biphenomycin B Analogue <i>via</i> a Double Heck Coupling Procedure
John P. Lorimer, Timothy J. Mason, David Kershaw	1217	An Observation of the Effect of Ultrasonic Power on the Rates of Initiation and Polymerisation of <i>N</i> -Vinylcarbazole in Benzene
Minoru Ishikura, Masanao Terashima, Kimio Okamura, Tadamasa Date	1219	A New Pathway into [<i>b</i>]-Annelated Indole Derivatives through Trialkyl(1-methyl-2-indolyl)borates
Zhi Y. Wang, Helena Nandin de Carvalho, Allan S. Hay	1221	New Synthesis of Poly(arylene ether)s using Masked Bisphenols
Theresa Wen, Robert Bau, Charles E. McKenna	1223	X-Ray Crystal Structure of 2,4,6-Tris(<i>p</i> -methoxyphenyl)-1,3,5,2,4,6-trioxatriphosphinane 2,4,6-Trisulphide, a Co-product in P=O \rightarrow P=S Thionation with Lawesson's Reagent
Stephen J. Harris, Geraldine Barrett, M. Anthony McKervey	1224	Polymeric Calixarenes. Synthesis, Polymerisation and Na ⁺ Complexation of a Calix[4]arene Methacrylate
Yasushi Mizobe, Masayuki Hosomizu, Jun-ichi Kawabata, Masanobu Hidai	1226	Novel Reactivity of Thiometallates: Syntheses and Structures of New Transition Metal Sulphide Clusters containing WRu ₂ S ₆ and Ru ₂ S ₂ (SR) ₂ Cores

Jyoji Kurita, Shinichi Shiratori, Shuji Yasuike, Takashi Tsuchiya	1227	Synthesis of the First Examples of 1-Benzophosphepines
Wee-Lin Lim, Christopher J. Rhodes	1228	Measurement of the Central Atom (^{29}Si) Couplings in Triphenylsilyl and Related Radicals
Jan B. F. N. Engberts, Rene Kerstholt, Michael J. Blandamer	1230	Group Contributions to Cosphere–Cosphere Interaction Parameters: Ester Hydrolysis in Aqueous Solutions containing Carboxamides

Additions and Corrections

Malcolm L. H. Green, Andrew K. Hughes	1231	The Structure of Trichloromethyltitanium: A Redetermination of the Relative Sign of $^2J(\text{H}-\text{D})$ in $(\text{CH}_2\text{D})\text{TiCl}_3$
---------------------------------------	------	------------------------------------------------------------------------------------------------------------------------------------------------------

AUTHOR INDEX

- Adam, Raymond, 1144
 Annen, Michael J., 1175
 Bäckvall, Jan-E., 1190
 Bailey, F. Court, 1156
 Barrett, Geraldine, 1224
 Bau, Robert, 1223
 Beckwith, Athelstan L. J., 1151
 Berger, Brigitte, 1198
 Bertrand, Guy, 1192
 Bhalerao, U. T., 1197
 Bissell, Richard A., 1148
 Blanchard-Desce, Mireille, 1179
 Blandamer, Michael J., 1230
 Boulton, A. J., 1178
 Brechbiel, Martin W., 1169
 Carlström, Anne-Sofie, 1216
 Chaudhari, S. T., 1158
 Chen, Wenqi, 1214
 Chiesi-Villa, Angiola, 1166
 Chomel, Rodolphe, 1152
 Choudhary, V. R., 1158
 Claude, Sylvain, 1182
 Cloutier, Renée, 1194
 Colcher, David, 1169
 Dasaradhi, L., 1197
 Date, Tadamasa, 1219
 Davis, Mark E., 1175
 de Silva, A. Prasanna, 1148
 Denny, William A., 1171
 Dunkin, Ian R., 1178
 Engberts, Jan B. F. N., 1230
 Ephritikhine, Michel, 1144
 Ernst, Stefan, 1142
 Faber, Kurt, 1198
 Fadnavis, N. W., 1197
 Faridoon, K. Y., 1141
 Floriani, Carlo, 1166
 Foos, Jacques, 1152
 Fraser-Reid, Bert, 1207
 Frejd, Torbjörn, 1216
 Frim, Ron, 1202
 Fujiwara, Yasushi, 1154
 Fukumoto, Keiichiro, 1168
 Funaki, Ikuo, 1145
 Gansow, Otto A., 1169
 Godfrey, Stephen M., 1163
 Gomez, Ana M., 1207
 Green, Malcolm L. H., 1231
 Grennberg, Helena, 1190
 Groombridge, Christopher J., 1164
 Guastini, Carlo, 1166
 Guy, Alain, 1152
 Harger, Martin J. P., 1187
 Harris, Stephen J., 1224
 Harrowfield, Jack M., 1159
 Hashidoko, Yasuyuki, 1185
 Hashimoto, Michiaki, 1154
 Hay, Allan S., 1221
 Henderson, Neil, 1178
 Hersperger, Rene, 1151
 Hidai, Masanobu, 1226
 Higgins, John B., 1175
 Hight, Robert J., 1176
 Horchler von Locquenghien, Klaus, 1192
 Hoshino, Kunihide, 1173
 Hosomizu, Masayuki, 1226
 Hu, Yulin, 1176
 Hughes, Andrew K., 1231
 Hursthouse, Michael B., 1146
 Ichimura, Kunihiro, 1210
 Ihara, Masataka, 1168
 Ikeda, Tomiki, 1210
 Ishikura, Minoru, 1219
 Jin, Zhongsheng, 1214
 Kabuto, Chizuko, 1168
 Kanbara, Takaki, 1210
 Kawabata, Jun-ichi, 1226
 Kelly, David G., 1163
 Kershaw, David, 1217
 Kerstholt, Rene, 1230
 Kimura, Masaru, 1154
 Kobayashi, Nagao, 1203
 Kool, Eric T., 1161
 Kosugi, Hiroshi, 1173
 Kugimiya, Shin-ichi, 1179
 Kurita, Jyoji, 1227
 Lance, Monique, 1144
 Langer, Vratislav, 1190
 Laurence, Gerald S., 1205
 Law, Kock-Yee, 1156
 Lazrak, Tarik, 1179
 Leclerc, Mario, 1194
 Lehn, Jean-Marie, 1179, 1182
 Lemaire, Marc, 1152
 Lim, Wee-Lin, 1228
 Lincoln, Stephen F., 1205
 Lorimer, John P., 1217
 Lynch, Michael A., 1178
 McAuliffe, Charles A., 1163
 McKenna, Charles E., 1223
 McKervey, M. Anthony, 1224
 Mackie, Anthony G., 1163
 McMurry, Thomas J., 1169
 Maeda, Koko, 1200
 Marion, Dominique, 1176
 Maruyama, Tsukasa, 1210
 Mason, Timothy J., 1217
 Matsura, Hideki, 1145
 Mazid, Muhammed A., 1146
 Milenic, Diane, 1169
 Mizobe, Yasushi, 1226
 Mizutani, Junya, 1185
 Mori, Yukie, 1200
 Morosawa, Shiro, 1154
 Nandin de Carvalho, Helena, 1221
 Neelakantan, P., 1197
 Nierlich, Martine, 1144
 Ogawa, Ayako, 1195
 Ogden, Mark I., 1159
 Oh, Shin-Chol, 1195
 Okada, Tetsuo, 1209
 Okamoto, Hideki, 1154
 Okamura, Kimio, 1219
 Okuda, Koichi, 1212
 Okuda, Ryoichi, 1154
 Pandit, M. Y., 1158
 Park, Yeung H., 1188
 Perkins, M. John, 1164
 Pippin, C. Greg, 1169
 Pittet, Pierre-André, 1205
 Prakash, Gautam, 1161
 Price, Geoffrey L., 1188
 Pritchard, Robin G., 1163
 Rabinovitz, Mordecai, 1202
 Réau, Régis, 1192
 Rhodes, Christopher J., 1228
 Richmond, William R., 1159
 Rickard, Clifton E. F., 1171
 Robinson, Stephen D., 1146
 Roselli, Mario, 1169
 Sahajpal, Arvind, 1146
 Satake, Kyosuke, 1154
 Satoh, Shin-ichi, 1195
 Schäfer, Karin, 1142
 Schlenker, John L., 1175
 Schmidt, Frédéric, 1182
 Shimmin, P. Andrew, 1187
 Shiratori, Shinichi, 1227
 Shiota, Yasuhiko, 1195
 Suzuki, Hitomi, 1145
 Suzuki, Shuichi, 1168
 Sykes, A. Geoffrey, 1141
 Tahara, Satoshi, 1185
 Tanaka, Kazuhiko, 1145
 Taniguchi, Nobuaki, 1168
 Terashima, Masanao, 1219
 Toda, Fumio, 1212
 Tokuda, Koichi, 1210
 Tsuchiya, Takashi, 1227
 Turonek, Mary L., 1205
 Uda, Hisashi, 1173
 Valverde, Serafin, 1207
 Veya, Patrick, 1166
 Vigner, Julien, 1144
 Vigneron, Jean-Pierre, 1182
 Villiers, Claude, 1144
 Wainwright, Kevin P., 1205
 Wang, Zhi Y., 1221
 Ware, David C., 1171
 Watadani, Izumi, 1154
 Watson, Susan M., 1163
 Weitkamp, Jens, 1142
 Wen, Theresa, 1223
 White, Allan H., 1159
 White, Jonathon M., 1151
 Wilson, William R., 1171
 Xia, Jusong, 1214
 Yamamoto, Takakazu, 1210
 Yasuike, Shuji, 1227
 Zhou, Zhen-hua, 1210
 Zhuang, Hua-Yun, 1141
 Ziffer, Herman, 1176
 Zilber, Gil, 1202

**Scan the contents page, below, of the second issue of 'Mendeleev Communications'.
It speaks volumes for what you'll find when you read the journal itself...**

Sergey I. Protashchuk, Oleg S. Kirichenko and Yakov Z. Zorin	41	Proton Affinity of Halogenoamines. A Theoretical Study
Elena V. Dovgilevich, Igor' A. Parshikov, Lyudmila V. Modyanova, Petr B. Terent'ev and Gleb A. Butakov	42	A Novel Microbial Transformation of γ -Carboline Derivative 3,6-Dimethyl-9-[2-(2-methylpyrid-5-yl)ethyl]-1,2,3,4-tetrahydro- γ -carboline
Valery I. Severin, Alla V. Tseplyaeva, Nonna E. Khandamirova, Yury A. Priselkov, Natalya A. Chernova and Iten V. Golubtsov	43	Saturated Vapour Pressure and Enthalpy of Sublimation of Germanium
Ann V. Gulevskaya, Alexander F. Pozharskii, Sergey V. Shorshnev and Valery V. Kuz'mendko	46	Different Behaviour of Fervenulin 4-Oxide and 1,3-Dimethylumazine 5-Oxide towards Nucleophiles
Igo T. Chizhevsky, Irina A. Lobanova, Vladimir I. Bregadze, Pavel V. Petrovskii, Valentina A. Antonovich, Aleksandr V. Polyakov, Aleksandr I. Yanovskii and Yuri T. Struchkov	47	The First <i>exo-nido</i> -Ruthenacarborane Clusters. Synthesis and Molecular Structure of 5,6,10-[Cl(Ph ₃ P) ₂ Ru]-5,6,10- μ -(H) ₃ -10-H-7,8-C ₂ B ₉ H ₈
S. Zlotin, M. Sharashkina, Yu. Strelenko and O. Luk'yanyov	49	A Regiospecific Synthesis of 1-Phosphonatiazene-2-oxides
Aleksander G. Tolstikov, Oleg F. Prokopenko, Leonard M. Khalilov, Leonid V. Spirikhin and Genrikh A. Tolstikov	51	Synthesis and Acid-induced Ring Opening of Modified Glycals. Synthons for (14 <i>R</i> ,15 <i>R</i>)-Lipoxin B and (7 <i>S</i> ,8 <i>R</i>)-(—)-Disparlure
Aleksander G. Tolstikov, Oleg F. Prokopenko, Leonard M. Khalilov, Leonid V. Spirikhin, Arnold A. Berg, Vilina R. Sultanmuratova and Genrikh A. Tolstikov	52	Synthesis of Unsaturated Polyhydroxycarboxylic Acids as Structural Analogues of an Arachidonic Acid Metabolite
Vladimir D. Belyaev, Vladimir A. Sobyanin, Anatolii K. Demin, Aleksandr S. Lipilin and Valerii E. Zapatoskii	53	The Influence of Electrochemical Pumping of Oxygen through a Solid Oxide Electrolyte on the Catalytic Properties of Platinum in Methane Oxidation
Tengiz Sh. Kapanadze, Yuliya E. Gorbunova, Yuri V. Kokunov and Yuri A. Buslaev	55	Stereochemistry of Cobalt(III) Complexes Containing (N,O)-Five and Six-membered Aminoalcohol Chelate Rings
Andrei G. Abroskin, Yuri A. Barbalat, Tatiana A. Belyaeva, Elena K. Ivanova, Michael A. Proskurnin, Valentina M. Savostina and Vera A. Filichkina	57	Application of Thermal Lens Spectrometry to the Determination of Theophylline
Tatiana A. Stromnova, Irina N. Busygina, Natalya Yu. Tiho-nova and Il'ya I. Moiseev	58	Thermolysis of Tetranuclear Palladium Clusters: Unexpected Transfer of Oxygen from a Carboxylate Group to Carbene and Carbonyl Bridging Ligands; Carbon Dioxide Insertion into C—H Bonds
V. I. Privalov, V. V. Lapkin, V. P. Tarasov and Yu. A. Buslaev	59	Structure and Hydrolysis of Heterovalent Polynuclear Oxonitrocomplexes of Pt ^{II,IV} in Aqueous Solutions by ¹⁹⁵ Pt and ¹⁵ N NMR Spectroscopy
Aleksandr N. Kasatkin, Oleg Yu. Tsypyshev, Tatjana Yu. Romanova and Genrikh A. Tolstikov	62	Cross-coupling of Alkyl Organomanganese Compounds with β -Chloroalkenyl Ketones
Mikhail A. Zakharov	63	Porous Materials as New Matrices for the Immobilisation of Long-lived Radionuclides: Products of the Reprocessing of Nuclear Fuel from Atomic Power Stations
Aleksander G. Tolstikov, Oleg F. Prokopenko, Radik Kh. Yamilov and Genrikh A. Tolstikov	64	A Convenient Approach to the Synthesis of Glycosphingolipids via the Acidic Decyclization of Hexo- <i>O</i> -acetyl- <i>n</i> -gentiobial
Sergey A. Degterov and Gennadij F. Voronin	65	Thermodynamic Stability of Superconductors Y ₂ Ba ₄ Cu _{6+n} O _{14+n} (<i>n</i> = 0, 1, 2, . . .)
Galina N. Pirogova, Natalya N. Rymar, Yurii Voronin and Tat'yana A. Lagutina	67	A Synergistic Effect on Supported Bimetallic Metal–Technetium Catalysts
Semen I. Kuchanov and Mihail Y. Gelfer	68	'Pseudo Gel-effect' in Radical Copolymerization
Rashid G. Gasanov, Tamara T. Vasilieva and Sergei I. Gapusenko	70	Mechanism and Rate Constant for Rearrangement of Radicals PhCH ₂ CH ₂ CH(CF ₃)CH ₂ CHCF ₃ to PhCHCH ₂ CH(CF ₃)CH ₂ CH ₂ CF ₃ with 1,5-Hydrogen Migration
Lev Yu. Ukhin, Vitalii N. Komissarov, Mikhail S. Korobov and Leonid E. Nivorozhkin	71	Synthesis of Unsymmetrical Azabicyclo[3.3.1]nonane Structures with Different Heteroatoms
Vladimir A. Bren, Vladimir I. Minkin, Evgenii N. Shepelenko, Alexander D. Dobonosov and Arkadii Ya. Bushkov	72	Photoisomerization of Hydrazones of 2-Acetyl-3-hydroxy-benzo[b]furan and -benzo[b]thiophene
S. M. Luk'yanyov, M. E. Kletskii, S. V. Borodaev, N. V. Shibaeva, A. I. Pyshchev and R. M. Minyaev	73	Two Paths for the Acid Catalysed Interaction of Carbonyl Compounds with Nitriles
Stanislava G. Dmitrienko, Olga A. Kosyreva, Valentin K. Runov and Yuri A. Zolotov	75	Utilization of Polyurethane Foams in Sorption–Photometric Analysis
Valery N. Kalinin, Il'ya A. Cherepanov, Sergey K. Moiseev, Andrey S. Batsanov and Yuri T. Struchkov	77	Reactivity of <i>a</i> -Metallated Alkylarene Tricarbonylchromium Complexes. Preparation, Properties and X-Ray Crystal Structure of (η^3 -C ₅ H ₅)Pd(CH ₂ Ph- η^6)-Cr(CO) ₃ , a Novel Complex with a Palladium–Chromium σ -Bond
A. L. Nivorozhkin, L. E. Nivorozhkin, L. E. Konstantinovsky and V. I. Minkin	78	Synthesis and Structure of 3-formylquinoline-2(<i>H</i>)-thione and -selone and the Corresponding Imines
Alexander N. Zakharov	80	Complexes of Transition Metals in Zeolites. Activation of Hydrogenation Functions of Phthalocyanine Fe ^{II} Complexes by Zeolites

ROYAL
SOCIETY OF
CHEMISTRY



Information Services

MENDELEEV COMMUNICATIONS
Preliminary accounts of important new work in chemistry
from the USSR and elsewhere - read it!

