

JOURNAL OF THE CHEMICAL SOCIETY

Chemical Communications

Number 6
1992

CONTENTS

- Masahiro Kako, Takeshi Akasaka, Wataru Ando 457 Singlet Oxygenation of Digermiranes: Formation of 1,2,3,5-Dioxadigermolane
Wataru Ando, Masahiro Kako, Takeshi Akasaka 458 Formation of 1,2,3,6-Dioxadigermine in the Electron-transfer Oxygenation of 1,2-Digermetene
- S. Bernal, J. J. Calvino, G. A. Cifredo, J. M. Rodríguez-Izquierdo, V. Perrichon, A. Laachir 460 The Key Role of Highly Dispersed Rhodium in the Chemistry of Hydrogen–Cerium Systems
Yves Chauvin, Dominique Commereuc 462 Chemical Counting and Characterization of the Active Sites in the Rhenium Oxide/Alumina Metathesis Catalyst
- Bruno Herreros, Pascal P. Man, Jean-Marie Manoli, Jacques Fraissard 464 Solid-state ^{139}La NMR Investigation of Lanthanum-exchanged Y Zeolites
- L. K. Marjatta Kiminkinen, Loreen C. Zeller, Hilkka I. Kenttämäa 466 The Structure of the Long-lived Radical Cation of Ethyl Acetate
- Rachid Lyazghi, Yvon Pointud, Gérard Dauphin, Jean Juillard 468 Evidence for Self-aggregation of the Ionophore Lasalocid Free Anion in Aqueous Solution
C. V. Kumar, Emma H. Asuncion 470 Sequence Dependent Energy Transfer from DNA to a Simple Aromatic Chromophore
- Joaquin F. Perez-Benito, Conchita Arias, Driss Lamrhari 472 Evidence for the Involvement of Chromium(II) as an Intermediate in the Reduction of Chromium(VI) to Chromium(III) by Formaldehyde
- Peter B. Hitchcock, Michael F. Lappert, Gerard A. Lawless, Hélène Olivier, Evelyn J. Ryan 474 Lipophilic Halogenozirconocene(III) Complexes: $[\{\text{Zr}[\eta\text{-C}_5\text{H}_3(\text{SiMe}_3)_2\text{-1,3}]_2(\mu\text{-Cl})_2\}]$, $[\text{NBu}^n_4][\text{Zr}\{\eta\text{-C}_5\text{H}_3(\text{SiMe}_3)_2\text{-1,3}\}_2\text{Cl}_2]$ and $[\text{Zr}\{\eta\text{-C}_5\text{H}_3(\text{SiMe}_3)_2\text{-1,3}\}_2\text{Cl}_2]$
- Hiroharu Suzuki, Toshiro Takao, Masako Tanaka, Yoshihiko Moro-oka 476 Synthesis and Reactivity of Dinuclear μ -Silyl Complexes of Ruthenium having Three-centre Two-electron Ru–H–Si Interactions
- Martin R. Bryce, Gordon R. Davidson, Judith A. K. Howard, Andrei S. Batsanov 478 Synthesis and Redox Properties of Substituted 1,4,2-Dithiazines: X-Ray Crystal Structure of 3-(4-Methoxyphenyl)-5,6-dimethyl-1,4,2-dithiazine
- Hongze Liang, Qui Shen, Songchun Jin, Yonghua Lin 480 Synthesis and X-Ray Crystal Structure of $[\text{Eu}(\eta^6\text{-C}_6\text{Me}_6)(\text{AlCl}_4)_2]_4$; the First Cyclotetrameric Lanthanide(II) Complex with a Neutral π -Ligand
- Jozef Bukala, Jean-Christophe Culmann, Jean Sommer 481 Selective Carbonylation of Propane in HF-SbF_5 : The Role of Carbon Monoxide in the Halogen-promoted Activation Step
- Charles A. McAuliffe, Stephen M. Godfrey, Anthony G. Mackie, Robin G. Pritchard 483 The Reaction of Coarse-grain Manganese Powder with Diiodotrimethylphosphorane to Form $[\text{Mn}(\text{PMe}_3)_2\text{I}_2]_n$, which Reacts with Trace Quantities of Molecular Oxygen to Form the Mixed (+2/+3) Oxidation State Complex $[\text{Mn}_2(\text{PMe}_3)_3\text{I}_5]\text{PMe}_3$
- C. Oliver Kappe, Gert Kollenz, Curt Wentrup 485 A Nitroketene to Nitrile Oxide Transformation
- C. Oliver Kappe, Gert Kollenz, Regis Leung-Toung, Curt Wentrup 487 Methyleneketene–Imidoyleketene–Oxoketenimine Rearrangements
- C. Oliver Kappe, Gert Kollenz, Klaus-Peter Netsch, Regis Leung-Toung, Curt Wentrup 488 Imidoyleketene–Azetin-2-one–Oxoketenimine Rearrangement
- Hans-Jörg Schneider, Frank Werner 490 1,2-Diphenyl-1,2-diaminoethane Derivatives as Scissors Shaped Allosteric Receptors
- Fernando González, Carmen Pesquera, Inmaculada Benito, Sagrario Mendioroz, George Poncelet 491 High Conversion and Selectivity for Cracking of n-Heptane on Cerium–Aluminium Montmorillonite Catalysts
- Nivedita Srivastava, Alka Mital, Arvind Kumar 493 A Novel Chiral Auxiliary from Chiral Spiranes. *cis,cis*-(+)- and (–)-Spiro[4.4]-nonane-1,6-diol as Chiral Modifier in Lithium Aluminium Hydride Reduction of Phenyl Alkyl Ketones
- David Rawson, A. I. Meyers 494 The Asymmetric Reduction of Prochiral Ketones Using (S)-2,2'-Dihydroxy-4,5,6,4',5',6'-hexamethoxybiphenyl

- Yuzo Nishida, Tetsuya Akamatsu, Toshihiro Ishii, Yoshiaki Oda 496 Evolution of Ethylene from 1-Aminocyclopropanecarboxylic Acid by Binuclear Iron(III)–Peroxide Adducts
- Natalie M. Rowley, Stefan S. Kurek, Michael W. George, Stephan M. Hubig, Paul D. Beer, Christopher J. Jones, John M. Kelly, Jon A. McCleverty 497 Intramolecular Electron Transfer in Peripherally Metallated Tetraphenyl Porphyrin Derivatives Containing Molybdenum Mononitrosyl Redox Centres
- Takashi Jin, Kazuhiko Ichikawa, Tomiyasu Koyama 499 A Fluorescent Calix[4]arene as an Intramolecular Excimer-forming Na⁺ Sensor in Nonaqueous Solution
- Scott R. Harring, Tom Livinghouse 502 A Concise Biomimetic Total Synthesis of (±)-Taxodione *via* a BF₃·MeNO₂ Promoted Cationic Cascade Annulation
- Scott R. Harring, Tom Livinghouse 503 Terminator Regulated Mechanistic Divergence in BF₃·MeNO₂ Promoted Cascade Annulations of Geometrically Defined Trienoate Derivatives
- Paul Binger, Franz Langhauser, Barbara Gabor, Richard Mynott, Albert T. Herrmann, Carl Krüger 505 Dimethylallenediyl as an η¹,η²-Bridging Ligand in a Dizirconocene Complex
- Roger W. Alder, Rodney W. Mowlam, David J. Vachon, Gary R. Weisman 507 New Synthetic Routes to Macrocyclic Triamines
- Ayusman Sen, Minren Lin 508 A Novel Hybrid System for the Direct Oxidation of Ethane to Acetic and Glycolic Acids in Aqueous Medium
- Nobuo Sakairi, Hiroyoshi Kuzuhara 510 Cycloglycosidation of 1,2-Unsaturated Maltohexaose and Maltoheptaose Derivatives with Iodonium Addition. Conversion of α- and β-Cyclodextrins into Mono(2-deoxy) Derivatives *via* Acyclic Intermediates
- Robert L. Portsmouth, Lynn F. Gladden 512 Surface-phase Heterogeneity in the Benzene–Silicalite System
- Ramachandra V. Joshi, David Kessel, Thomas H. Corbett, Jiri Zemlicka 513 Ynamines Derived from Nucleic Acids Bases: Synthesis, Reactivity and Biological Activity
- Michiko B. Inoue, Motomichi Inoue, Michael A. Bruck, Quintus Fernando 515 Structure of Bis(ethylenedithio)tetrathiafulvalenium Tribromodicuprate(I), (BEDT-TTF⁺)Cu^I2Br₃: Coordination of the Organic Radical Cation to the Metal Ions
- Chuzo Iwata, Naoyoshi Maezaki, Manabu Murakami, Motohiro Soejima, Tetsuaki Tanaka, Takeshi Imanishi 516 Asymmetric Functionalisation of Prochiral 1,3-Diols Based on an Efficient 1,6-Chiral Induction: the Diastereoselective C–O Bond Fission in Chiral β-Arylsulfinyl Acetal *via* Two Types of Chelation Control
- Marie-Hélène Delville, Stefan Rittinger, Didier Astruc 519 First Delocalization of a Mono-Fulvalene-bridged Mixed-valence Diiron Complex on the Infrared Time Scale
- Servando Muñoz, Jesus V. Mallén, Akio Nakano, Zhihong Chen, Isabelle Gay, Luis Echegoyen, George W. Gokel 520 Lariat Ether Bola-amphiphiles: Formation of Crown Ether Based Bola-amphisomes
- Alexander J. Blake, Robert O. Gould, Paul E. Y. Milne, Richard E. P. Winpenny 522 New Routes to Copper–Lanthanoid Complexes—*via* a Metal Dimer

AUTHOR INDEX

- Akamatsu, Tetsuya, 496
 Akasaka, Takeshi, 457, 458
 Alder, Roger W., 507
 Ando, Wataru, 457, 458
 Arias, Conchita, 472
 Astruc, Didier, 519
 Asuncion, Emma H., 470
 Batsanov, Andrei S., 478
 Beer, Paul D., 497
 Benito, Inmaculada, 491
 Bernal, S., 460
 Bingcr, Paul, 505
 Blake, Alexander J., 522
 Bruck, Michael A., 515
 Bryce, Martin R., 478
 Bukala, Jozef, 481
 Calvino, J. J., 460
 Chauvin, Yves, 462
 Chen, Zhihong, 520
 Cifredo, G. A., 460
 Commercuc, Dominique, 462
 Corbett, Thomas H., 513
 Culmann, Jean-Christophe, 481
 Dauphin, Gérard, 468
 Davidson, Gordon R., 478
 Delville, Marie-Hélène, 519
 Echegoyen, Luis, 520
 Fernando, Quintus, 515
 Fraissard, Jacques, 464
 Gabor, Barbara, 505
 Gay, Isabelle, 520
 George, Michael W., 497
 Gladden, Lynn F., 512
 Godfrey, Stephen M., 483
 Gokel, George W., 520
 González, Fernando, 491
 Gould, Robert O., 522
 Harring, Scott R., 502, 503
 Herreros, Bruno, 464
 Herrmann, Albert T., 505
 Hitchcock, Peter B., 474
 Howard, Judith A. K., 478
 Hubig, Stephan M., 497
 Ichikawa, Kazuhiko, 499
 Imanishi, Takeshi, 516
 Inoue, Michiko B., 515
 Inoue, Motomichi, 515
 Ishii, Toshihiro, 496
 Iwata, Chuzo, 516
 Jin, Songchun, 480
 Jin, Takashi, 499
 Jones, Christopher J., 497
 Joshi, Ramachandra V., 513
 Juillard, Jean, 468
 Kako, Masahiro, 457, 458
 Kappe, C. Oliver, 485, 487, 488
 Kelly, John M., 497
 Kenttämää, Hilka I., 466
 Kesscl, David, 513
 Kiminkinen, L. K. Marjatta, 466
 Kollenz, Gert, 485, 487, 488
 Koyama, Tomiyasu, 499
 Krüger, Carl, 505
 Kumar, Arvind, 493
 Kumar, C. V., 470
 Kurek, Stefan S., 497
 Kuzuhara, Hiroyoshi, 510
 Laachir, A., 460
 Lamrhari, Driss, 472
 Langhauser, Franz, 505
 Lappert, Michael F., 474
 Lawless, Gerard A., 474
 Lcung-Toung, Regis, 487, 488
 Liang, Hongze, 480
 Lin, Minren, 508
 Lin, Yonghua, 480
 Livinghouse, Tom, 502, 503
 Lyazghi, Rachid, 468
 McAuliffe, Charles A., 483
 McCleverty, Jon A., 497
 Mackie, Anthony G., 483
 Maezaki, Naoyoshi, 516
 Mallén, Jesus V., 520
 Man, Pascal P., 464
 Manoli, Jean-Marie, 464
 Mendioroz, Sagrario, 491
 Meyers, A. I., 494
 Milne, Paul E. Y., 522
 Mital, Alka, 493
 Moro-oka, Yoshihiko, 476
 Mowlam, Rodney W., 507
 Muñoz, Servando, 520
 Murakami, Manabu, 516
 Mynott, Richard, 505
 Nakano, Akio, 520
 Netsch, Klaus-Peter, 488
 Nishida, Yuzo, 496
 Oda, Yoshiaki, 496
 Olivier, Hélène, 474
 Perez-Benito, Joaquin F., 472
 Perrichon, V., 460
 Pesquera, Carmen, 491
 Pointud, Yvon, 468
 Poncelet, George, 491
 Portsmouth, Robert L., 512
 Pritchard, Robin G., 483
 Rawson, David, 494
 Rittinger, Stefan, 519
 Rodriguez-Izquierdo, J. M., 460
 Rowley, Natalie M., 497
 Ryan, Evelyn J., 474
 Sakairi, Nobuo, 510
 Schneider, Hans-Jörg, 490
 Sen, Ayusman, 508
 Shen, Qui, 480
 Socjima, Motohiro, 516
 Sommer, Jean, 481
 Srivastava, Nivedita, 493
 Suzuki, Hiroharu, 476
 Takao, Toshiro, 476
 Tanaka, Masako, 476
 Tanaka, Tetsuaki, 516
 Vachon, David J., 507
 Weisman, Gary R., 507
 Wentrup, Curt, 485, 487, 488
 Werner, Frank, 490
 Winpenny, Richard E. P., 522
 Zeller, Loreen C., 466
 Zemlicka, Jiri, 513

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

1992, Issue 1

Evgenii T. Denisov	1	The Parabolic Transition State Model and Resultant Nonlinear Correlations for the Kinetics of Free Radical Reactions
Rakhim R. Rakhimov, Aleksandr I. Semikopny and Yakov S. Lebedev	2	Unexpected Influence of Viscosity on Intramolecular Spin Exchange in Nitroxide Biradicals
Genrikh A. Tolstikov, Rinat R. Akhmetvaleev, Vadim M. Zhurba and Mansur S. Miftakhov	4	A Novel Approach to Carbacycline
Vera S. Belova, Alexander M. Khenkin, Victor N. Postnov, Valerii E. Prusakov, Alexander E. Shilov and Marina L. Stepanova	7	Oxidation of Alkanes by Dioxygen in the Presence of an Iron Complex immobilized on Modified Silica. Chemical Model of Methane Monooxygenase
Sergei V. Chapyshev and Victor G. Kartsev	8	New Rearrangement in the <i>o</i> -Methoxycarbonyl- ω -diazoacetophenone Series
Yurii A. Lokhov, Sergei F. Tikhov, Mikhail N. Bredikhin, Aleksei G. Zhirnyagin and Vladislav A. Sadykov	10	Carbon Monoxide Oxidation on Cobalt Oxides at 80 K: an FTIR Study
Ivan S. Alfer'ev and Sergey Yu. Bobkov	12	Cyclic Oligophosphonic Anhydrides
Oleg M. Nefedov, Yurii V. Tomilov, Andrei B. Kostitsyn, Usein M. Dzhemilev and Vladimir A. Dokitchev	13	Cyclopropanation of Unsaturated Compounds with Diazomethane Generated <i>in situ</i> . A New Efficient and Practical Route to Cyclopropane Derivatives
Aleksei Yu. Kryukov, Alim Ch. Saidov and Anatolii V. Vannikov	15	Charge Carrier Transport in Ether-substituted Poly(1,4-phenylene-1,2-diphenylvinylene) Films
Sergey B. Bulgarevich and David Ya. Movshovich	16	The Onsager Approximation and Nonspecific Intermolecular Interactions in Polar Media
Valentin P. Feshin	18	p,π -Interaction in the $Y-C\equiv C$ Group
Saule K. Kudaikulova, Yurii A. Dubnitskii, Otan A. Almabekov and Bulat A. Zhubanov	19	Copolymerization of Pyrrole with Aromatic Bisdiazonium Salts
Sergei V. Verin, Dmitrii E. Tosunyan and Evgenii V. Kuznetsov	20	An Efficient Access to α -Tetralones and their Derivatives <i>via</i> <i>O</i> -Quinodimethanes Generated by Isochromene Ring Cleavage
Vadim I. Nefedov, Alexander N. Sokolov, Andrei R. Vinogradov, Tatiana A. Fomina, Natalia G. Shuranova, Konstantin G. Oksenoid, Grigorii I. Ramendik and Evgenii A. Volkov	21	Changes in the Composition and Properties of High- T_c Superconducting Ceramics $YBa_2Cu_3O_{6.5+\delta}$ after Passage of a Direct Current
Arthur N. Frolov and Maxim V. Baklanov	22	Unusual Photocyclization of 1-(2-Pyridylamino)-8-chloronaphthalene
Victor M. Anisimov, Alexandr B. Zolotoi, Mikhail Y. Antipin, Petr M. Lukin, Oleg E. Nasakin and Yurii T. Struchkov	24	Hexacyanocyclopropane. Synthesis and Structure
Aleksandr S. Kiselev, Andrei A. Gakh, Aleksandr V. Samet and Victor V. Semenov	25	Aromatic Ring Opening of Pyridinium Salts using Carbanions formed from Malononitrile and Ethyl Cyanoacetate
Usein M. Dzhemilev, Askhat G. Ibragimov and Aleksei B. Morozov	26	Regio- and Stereo-selective Synthesis of <i>trans</i> -3,4-Dialkyl-substituted Aluminacyclopentanes in the Presence of $(\eta^3-C_5H_5)_2ZrCl_2$
Usein M. Dzhemilev, Askhat G. Ibragimov and Aleksei P. Zolotarev	28	Novel Regioselective β -Hydrovinylation of Terminal Alkenes in the Presence of Metallocomplexed Catalysts
Dmitrii G. Mazhukin, Leonid B. Volodarskii, Lidiya A. Tikhonova and Aleksei Ya. Tikhonov	29	Synthesis of 3,4-Dihydro-1,2-diazete 1,2-Dioxides based on 1,2-Bishydroxylamines and 1,2-Nitroso Oxime
Alexander E. Mistryukov, Igor S. Vasil'chenko, Vladimir S. Sergienko, Alexander L. Nivorozhkin, Stanislav G. Kochin, Mikhail A. Porai-Koshits, Leonid E. Nivorozhkin and Alexander D. Garnovskii	30	Direct Evidence for Bidentate Character of Potentially Tridentate N,S-Ligands. Molecular Structures of Bis[<i>N</i> -(2-pyridyl)thiosalicylidene- κ S-amino- κ N]nickel(II) and Bis{1-isopropyl-3-methyl-4-[<i>N</i> -(2-pyridyl)imino- κ N-methyl]pyrazole-5-thiolato- κ S}copper(II)
Mikhail M. Levitskii, Aleksandr Yu. D'yakov and Anatolii L. Buchachenko	32	Unusual Magnetic Behaviour of Polyferro(phenyl)siloxanes
Alexander F. Pozharskii, Ilya M. Nanavyan and Valery V. Kuz'menko	33	Formation of 3-Amino-1,2,4-triazines by Thermolysis of Condensed <i>N</i> -Amino- α -Azidoimidazoles
Aleksandr A. Rudnev	35	Cosmic Rays and Chemical Evolution
Georgiy B. Shul'pin and Alla N. Druzhinina	36	Iron(III) Chloride Catalysed Photooxygenation of Alcohol Solutions of Alkanes by Atmospheric Oxygen
Vladimir A. Ryabinin, Vladimir F. Starichenko and Vitalii D. Shteingarts	37	C—N Bond Cleavage in the Electrochemical Reduction of 1,2,4,5-Tetrafluoro-3,6-dinitrobenzene
Valery N. Khabashesku, V. Balaji, Sergei E. Boganov, Svetlana A. Bashkirova, Pavel M. Matveichev, Evgeny A. Chernyshev, Oleg M. Nefedov and Josef Michl	38	Matrix Isolation and Photochemical Interconversion of Silacyclopentadienes

ROYAL
SOCIETY OF
CHEMISTRY



Information
Services

MENDELEEV COMMUNICATIONS

Preliminary accounts of important new work in chemistry
from Russia, Other States of the Commonwealth of
Independent States and Elsewhere - read it!



Российская
АКАДЕМИЯ НАУК