

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions II

Physical Organic Chemistry

CONTENTS

- 1539 A kinetic study of the oxidation of 2,4-dinitrophenylhydrazine with acidic bromate **Sreekantha Babu Jonnalagadda** and **Gerald K. Muthakia**
- 1543 Synthesis of parabactin analogues and formation of transition metal complexes of parabactin and related compounds **Tadayo Miyasaka, Yoshimitsu Nagao, Eiichi Fujita, Hiromu Sakurai, and Kazuhiko Ishizu**
- 1551 ^1H and ^{13}C dynamic nuclear magnetic resonance study of hindered internal rotation in (*N,N*-dimethylamino)-pyrimidines **Jacques Riand, Marie-Thérèse Chenon, and Nicole Lumbroso-Bader**
- 1559 Influence of substituent on rate and equilibrium constants by means of spectral-isolation factor analysis **Ülo L. Haldna, Raivo J. Juga, Ants V. Tuulmets, and Toomas J. Jüriado**
- 1563 Phase diagram and association constants of a molecular complex in the 1,3,5-trinitrobenzene–benzene binary system **Maria Radomska, Ryszard Radomski, and Ryszard Klos**
- 1569 Chloride ion-catalysed oxidation of arginine, threonine, and glutamic acid by 1-chlorobenzotriazole: a kinetic and mechanistic study **Rajashekhar C. Hiremath, Sanabaghatta M. Mayanna, and Nagaswami Venkatasubramanian**
- 1575 Microgels as supports for α -chymotrypsin **Ajay K. Luthra, Andrew Williams, and Robert J. Pryce**
- 1579 Oligomeric cyclization of dinitriles in the synthesis of phthalocyanines and related compounds: the role of the alkoxide anion **Stuart W. Oliver and Thomas D. Smith**
- 1583 The catalytic resting state of asymmetric homogeneous hydrogenation. Exchange processes delineated by nuclear magnetic resonance saturation-transfer (DANTE) techniques **John M. Brown, Penny A. Chaloner, and Gareth A. Morris**
- 1589 Stereochemistry of intermediates in homogeneous hydrogenation catalysed by tristriphenylphosphinerhodium chloride, employing nuclear magnetic resonance magnetisation transfer **John M. Brown, Phillip L. Evans, and Andrew R. Lucy**
- 1597 Structural characterisation in solution of intermediates in rhodium-catalysed hydroformylation and their interconversion pathways **John M. Brown and Alexander G. Kent**
- 1609 The crystal and molecular structure of two calix[4]arenes bridged at opposite *para* positions **Erich Paulus, Volker Böhmer, Helmut Goldmann, and Walter Vogt**
- 1617 Properties of hydrogen bonds in 5,8-dihydroxy-1,4-naphthoquinone and 1,4-dihydroxy-9,10-anthraquinone; reaction with bases in aqueous solution **Frank Hibbert and Karen J. Spiers**
- 1621 On the possible isomerisation pathway for triarylmethanes Ar₃CX, including propeller crowns **William Clegg and Joyce C. Lockhart**
- 1629 Acid-catalysed intramolecular allylic rearrangement of methyl ethers in aqueous solvent. Evidence for the intermediacy of ion–molecule pairs in solvolysis **Alf Thibblin**
- 1633 Stereochemistry and stereodynamics of hexa-*n*-propylbenzene and of its tricarbonylchromium complex. Crystal and molecular structure of tricarbonyl(η^6 -hexa-*n*-propylbenzene)chromium(0) **Geoffrey Hunter, Timothy J. R. Weakley, and Walter Weissenseiner**

- 1639 Acid formation in the radical-mediated degradation of chlorinated ethanes in aqueous environment. A radiation chemical study **Manohar Lal, Jörg Mönig, and Klaus-Dieter Asmus**
- 1645 Kinetic study of oxidation of diols by sodium *N*-bromobenzenesulphonamide **Abha Mathur and Kalyan K. Banerji**
- 1649 The electronic effect of the phenylazo and t-butylazo groups **Christopher J. Byrne, Duncan A. R. Happer, Michael P. Hartshorn, and H. Kipton J. Powell**
- 1655 What makes hydrocyanic acid a normal acid? **Sebastião J. Formosinho and Victor M. S. Gil**
- 1659 The conformational analysis of erythromycin A **Jeremy R. Everett and John W. Tyler**
- 1669 The reaction between tetrasulphur tetranitride (S_4N_4) and electron-deficient alkynes. A molecular orbital study **Peter J. Dunn and Henry S. Rzepa**
- 1671 Electrochemical properties of pyrazinothiadiazoles **Patrick Camilleri, Barbara Odell, and Peter O'Neill**
- 1675 Non-stereospecificity in neutral 1,1-addition to isocyanides. An *ab initio* study of the reactions of HNC with water, ammonia, water dimer, ammonia dimer, and the water–ammonia complex **Minh Tho Nguyen and Anthony F. Hegarty**
- 1683 The mechanism of thermal eliminations. Part 22. Rate data for pyrolysis of primary, secondary, and tertiary β -hydroxy alkenes, β -hydroxy esters, and β -hydroxy ketones. The dependence of transition-state structure for six-centre eliminations upon compound type **Ryan August, Ian McEwen, and Roger Taylor**
- 1691 The quantitative electrophilic reactivity of annulenes. Part 3.¹ Partial rate factors for protiodetritiation and protiode-silylation of 1,6:8,13-propane-1,3-diylidene[14]annulene **Andrew P. Laws and Roger Taylor**

AUTHOR INDEX

- Asmus, Klaus-Dieter, 1639
August, Ryan, 1683
Banerji, Kalyan K., 1645
Böhmer, Volker, 1609
Brown, John M., 1583, 1589,
 1597
Byrne, Christopher J., 1649
Camilleri, Patrick, 1671
Chaloner, Penny A., 1583
Chenon, Marie-Thérèse, 1551
Clegg, William, 1621
Dunn, Peter J., 1669
Evans, Phillip L., 1589
Everett, Jeremy R., 1659
Formosinho, Sebastião J., 1655
Fujita, Eiichi, 1543
Gil, Victor M. S., 1655
Goldmann, Helmut, 1609
- Haldna, Ülo L., 1559
Happer, Duncan A. R., 1649
Hartshorn, Michael P., 1649
Hegarty, Anthony F., 1675
Hibbert, Frank, 1617
Hiremath, Rajashekhar C.,
 1569
Hunter, Geoffrey, 1633
Ishizu, Kazuhiko, 1543
Jonnalagadda, Sreekantha Babu,
 1539
Juga, Raivo J., 1559
Jüriado, Toomas J., 1559
Kent, Alexander G., 1597
Kłos, Ryszard, 1563
Lal, Manohar, 1639
Laws, Andrew P., 1691
Lockhart, Joyce C., 1621
- Lucy, Andrew R., 1589
Lumbroso-Bader, Nicole, 1551
Luthra, Ajay K., 1575
Mathur, Abha, 1645
Mayanna, Sanabaghatta M.,
 1569
McEwen, Ian, 1683
Miyasaka, Tadayo, 1543
Mönig, Jörg, 1639
Morris, Gareth A., 1583
Muthakia, Gerald K., 1539
Nagao, Yoshimitsu, 1543
Nguyen, Minh Tho, 1675
Odell, Barbara, 1671
Oliver, Stuart W., 1579
O'Neill, Peter, 1671
Paulus, Erich, 1609
Powell, H. Kipton J., 1649
- Pryce, Robert J., 1575
Radomska, Maria, 1563
Radomski, Ryszard, 1563
Riand, Jacques, 1551
Rzepa, Henry S., 1669
Sakurai, Hiromu, 1543
Smith, Thomas D., 1579
Spiers, Karen J., 1617
Taylor, Roger, 1683, 1691
Thibblin, Alf, 1629
Tuulmets, Ants V., 1559
Tyler, John W., 1659
Venkatasubramanian,
 Nagaswami, 1569
Vogt, Walter, 1609
Weakley, Timothy J. R., 1633
Weissensteiner, Walter, 1633
Williams, Andrew, 1575

NOTE: An asterisk in the heading of each paper indicates the author who is
to receive any correspondence.

