

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions II

Physical Organic Chemistry

CONTENTS

- 743 Photochemical cyclization of 2'-hydroxychalcones **Ryoka Matsushima and Hiroyuki Kageyama**
- 749 Interaction of iodine with some 5,5-dimethylimidazolidines with two chalcogen atoms at the 2- and 4-positions **Ilario Cau, Franco Cristiani, Francesco A. Devillanova, and Gaetano Verani**
- 753 High oxidizing activity of 3,10-dimethyl-8-azaisoalloxazine (8-Azaflavin) and its synthetic application as a turnover redox catalyst under aerobic conditions **Yumihiko Yano, Masashi Ohshima, Isao Yatsu, Susumu Sutoh, Rafael G. Vasquez, Akira Kitani, and Kazuo Sasaki**
- 759 Acid-base studies of glutathione (*L*- γ -glutamyl-*L*-cysteinyl-*L*-glycine) by one- and two-dimensional nuclear magnetic resonance spectroscopy **Thomas N. Huckerby, Alexandra J. Tudor, and J. Graham Dawber**
- 765 Spectroscopic differences between molecular ($O-H \cdots N$) and ionic pair ($O^- \cdots H-N^+$) hydrogen complexes **Piotr Barczyński, Zofia Dega-Szafran, and Miroslaw Szafran**
- 773 Mechanism of reaction between Grignard reagents and nitroarenes. Product distribution and relative reactivities of Grignard reagents with nitronaphthalene system **Giuseppe Bartoli, Marcella Bosco, Gabriele Cantagalli, Renato Dalpozzo, and Francesco Ciminale**
- 781 Nuclear magnetic resonance studies of the protonation sequence of cyclic tetra-azatetra-acetic acids **José R. Ascenso, Rita Delgado, and J. J. R. Frausto da Silva**
- 789 Pseudorotation of the ribofuranose ring. A theoretical study and a comparison with nuclear magnetic resonance results **Joanna Wiórkiewicz-Kuczera and Andrzej Rabczenko**
- 799 Group 4 organometallic reagents. A 1H , ^{13}C , and ^{119}Sn nuclear magnetic resonance study on 2,2-dibutyl-1,3,2-dioxa-stannolane structure in solution **Stefano Roelens and Maurizio Taddei**
- 805 Theoretical calculations of chemical interactions. Part 4. Aromatic nucleophilic substitutions and S_N2 reactions of 4- and 6-substituted 2-nitroanisoles **N. Sbarbatí Nuñez and Daniel R. Palleros**
- 811 Heat of combustion of some *N*-heterocycle compounds. Part 1 **Muayyad Faour and Talal S. Akasheh**
- 815 Linear solvation energy relationships. Part 31. On Bekárek's modifications of the solvatochromic parameters **José-Luis M. Abboud, Robert W. Taft, and Mortimer J. Kamlet**
- 821 Use of stable 2,2,6,6-tetramethylpiperidine *N*-oxyl radical for the measurements of Lewis acidity of solvents **Andrzej Janowski, Ilona Turowska-Tyrk, and Piotr K. Wrona**
- 827 Reaction of triphenylphosphine with methyl iodide. Transfer thermodynamic quantities and various extended Brönsted treatments **Yasuhiko Kondo, Atsuhiko Zanka, and Shigekazu Kusabayashi**
- 833 The synthesis and electrochemical properties of some novel photosynthesis electron acceptors **Patrick Camilleri, Michael T. Clark, Ian J. Gilmore, and David Cole-Hamilton**
- 837 Gas-phase acidity of CH_3X [$X = P(CH_3)_2, SCH_3, F, Cl, Br, \text{ or } I$] compounds **Steen Ingemann and Nico M. M. Nibbering**
- 841 Hydrogen abstraction from spiro[2.*n*]alkanes **Charles Roberts and John C. Walton**

- 847 Asymmetric resolution and molecular recognition. Part 1. The crystal structure of *N*-benzoyl-L-alanyl-strychninium dihydrate **Robert O. Gould, Rosemary Kelly, and Malcolm D. Walkinshaw**
- 853 Medium effects on deprotonation of phthalic and biphenyl acids in aqueous binary mixtures of some protic, aprotic, and dipolar aprotic cosolvents **Urmila Mandal, Swapna Bhattacharya, Sumita Sen, and Kiron K. Kundu**
- 859 The determination of the acidity of super-acid media by dynamic nuclear magnetic resonance measurements: the system fluorosulphuric acid–antimony pentafluoride **Victor Gold, Khosrow Laali, Kenneth P. Morris, and Leszek Z. Zdunek**
- 865 Dynamic nuclear magnetic resonance measurements of the basicity of weak organic bases in super-acid media **Victor Gold, Khosrow Laali, Kenneth P. Morris, and Leszek Zdunek**
- 871 A nuclear magnetic resonance study of the solution conformations of the antibiotic pseudomonic acid A **Jeremy R. Everett and John W. Tyler**
- 879 A kinetic study of the silver(I) ion-assisted synthesis of thiosulphonate esters from aliphatic disulphides **Jaswinder S. Sandhu and John G. Tillett**

AUTHOR INDEX

- Abboud, José-Luis M., 815
Akasheh, Talal S., 811
Ascenso, José R., 781
Barczyński, Piotr, 765
Bartoli, Giuseppe, 773
Bhattacharya, Swapan, 853
Bosco, Marcella, 773
Camilleri, Patrick, 833
Cantagalli, Gabriele, 773
Cau, Ilario, 749
Ciminale, Francesco, 773
Clark, Michael T., 833
Cole-Hamilton, David, 833
Cristiani, Franco, 749
da Silva, J. J. R. Fraústo,
 781
Dalpozzo, Renato, 773
- Dawber, J. Graham, 759
Dega-Szafran, Zofia, 765
Delgado, Rita, 781
Devillanova, Francesco A., 749
Everett, Jeremy R., 871
Faour, Muayyad, 811
Gilmore, Ian J., 833
Gold, Victor, 859, 865
Gould, Robert O., 847
Huckerby, Thomas N., 759
Ingemann, Steen, 837
Janowski, Andrzej, 821
Kageyama, Hiroyuki, 743
Kamlet, Mortimer J., 815
Kelly, Rosemary, 847
Kitani, Akira, 753
Kondo, Yasuhiko, 827
- Kundu, Kiron K., 853
Kusabayashi, Shigekazu, 827
Laali, Khosrow, 859, 865
Mandal, Urmila, 853
Matsushima, Ryoka, 743
Morris, Kenneth P., 859, 865
Nibbering, Nico M. M., 837
Nudelman, N. Sbarbati, 805
Ohshima, Masashi, 753
Palleros, Daniel R., 805
Rabczenko, Andrzej, 789
Roberts, Charles, 841
Roelens, Stefano, 799
Sandhu, Jaswinder S., 879
Sasaki, Kasuo, 753
Sen, Sumita, 853
Sutoh, Susumu, 753
- Szafran, Mirosław, 765
Taddei, Maurizio, 799
Taft, Robert W., 815
Tillett, John G., 879
Tudor, Alexandra J., 759
Turowska-Tyrk, Ilona, 821
Tyler, John W., 871
Vasquez, Rafael E., 753
Verani, Gaetano, 749
Walkinshaw, Malcolm D., 847
Walton, John C., 841
Wiorkiewicz-Kuczera, Joanna, 789
Wrona, Piotr K., 821
Yano, Yumihiko, 753
Yatsu, Isao, 753
Zanka, Atsuhiko, 827
Zdunek, Leszek Z., 859, 865

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

