

JOURNAL
OF
THE CHEMICAL SOCIETY

PERKIN TRANSACTIONS II
Physical Organic Chemistry

CONTENTS

	PAGE
A study on the electrochemical reduction mechanism of rotenone By GIULIO CAPOBIANCO, GIUSEPPE FARNIA, ALESSANDRO GAMBARO, and MARIA GABRIELLA SEVERIN	1277
The conformations of <i>cis</i> - and <i>trans</i> -isomers of benzylideneanilines: ¹ H nuclear magnetic resonance and optical spectroscopic studies By KOKO MAEDA, KAROL A. MUSZKAT, and SHOSHANA SHARAFI-OZERI	1282
Luminescence characteristics of thiamine derivatives By ERNEST P. GIBSON and JAMES H. TURNBULL	1288
Chemical reactivity and electronic structure of <i>N</i> -methyl derivatives of xanthine By ALEKSANDER P. MAZUREK	1293
A study of the aerial oxidation of L-cysteinyl-L-cysteine: purification of the product and equilibrium relationship involving the monomeric and dimeric cyclic derivatives By SANTE CAPASSO, CARLO ANDREA MATTIA, LELIO MAZZARELLA, and RAFFAELLA PULITI.	1297
Electrochemical formation of dianions from unsaturated cyclophanes By KJELL ANKNER, BO LAMM, BENGT THULIN, and OLOF WENNERSTRÖM	1301
A general preference for <i>gauche</i> alkyl-phenyl interactions. The use of lanthanide shift reagents in determining the preferred conformations of some alkyl 1-phenylethyl sulphoxides By YOSHIO KODAMA, SHOJI ZUSHI, KEN NISHIHATA, MOTOHIRO NISHIO, and JUN UZAWA.	1306
Nitrile-forming eliminations from oxime ethers By ANTHONY F. HEGARTY and PATRICK J. TUOHEY	1313
Formimidoyl group transfer from activated amidines. Part 1. Hydrolysis of 1-(<i>N</i> -butylformimidoyl)-imidazole and related imidazole-containing formamides By ANNE CHANDLER, ANTHONY F. HEGARTY, and MARGARET T. MCCORMACK	1318
Formation, rearrangement, and hydrolysis of enol esters derived from isoxazolium salts By ANTHONY F. HEGARTY and PATRICK J. TUOHEY	1326
Factors controlling the selectivity of <i>ipso</i> -attack in homolytic aromatic substitutions. Reactions of alkyl radicals with nitrothiophen derivatives By PIETRO COGOLLI, FILIPPO MAIOLO, LORENZO TESTAFERRI, MARCELLO TIECCO, and MARCO TINGOLI.	1331
Rearrangement of radical <i>ipso</i> -intermediates by 1,2-shift of a formyl group. Reactions of adamantyl radicals with thiophencarbaldehydes By PIETRO COGOLLI, LORENZO TESTAFERRI, MARCELLO TIECCO, and MARCO TINGOLI.	1336
Ring-chain isomerism of some 4,5-disubstituted pyridazines involving heterospiro-compounds By STEFANO CHIMICHI, RODOLFO NESI, MIRELLA SCOTTON, CARLO MANNUCCI, and GIORGIO ADEMBRI.	1339

	PAGE
Cobalt metallacycles. Part 9. Some reactions of cobaltaindene, cobaltafluorene, cobaltaxanthen, and cobaltacyclopentane complexes By YASUO WAKATSUKI, OKIO NOMURA, HIROATSU TONE, and HIROSHI YAMAZAKI	1344
Determination of a new scale of <i>ortho</i> -steric parameters S^0 from <i>N</i> -methylation of pyridines By ULF BERG, ROGER GALLO, GERD KLATTE, and JACQUES METZGER	1350
Synthesis, structure, and reactions of secosteroids containing a medium-sized ring. Part 17. Structure–reactivity relationship in the solvolysis of 5,10-secosteroidal 3-tosylates By LJUBINKA LORENC, MIROSLAV J. GAŠIĆ, IVAN JURANIĆ, MILAN DABOVIĆ, and MIHAILO LJ. MIHAILOVIĆ.	1356
Radical reactions of bicyclo[2.1.0]pentane By CAMPBELL JAMIESON, JOHN C. WALTON, and KEITH U. INGOLD	1366
The absence of nucleophilic catalysis in the nitrosation of amides. Kinetics and mechanism of the nitrosation of methylurea and the reverse reaction By GEOFFREY HALLETT and D. LYN H. WILLIAMS.	1372
Catalysis by β -glucosidase A_3 of <i>Aspergillus wentii</i> By GUNTER LEGLER, MICHAEL L. SINNOTT, and STEPHEN G. WITHERS	1376

INDEX OF AUTHORS' NAMES

- ADEMBRI, G. See Chimichi, S., 1339
Ankner, K., Lamm, B., Thulin, B., and Wennerström, O., 1301
Berg, U., Gallo, R., Klatte, G., and Metzger, J., 1350
Capasso, S., Mattia, C. A., Mazzarella, L., and Puliti, R., 1297
Capobianco, G., Farnia, G., Gambaro, A., and Severin, M. G., 1277
Chandler, A., Hegarty, A. F., and McCormack, M. T., 1318
Chimichi, S., Nesi, R., Scotton, M., Mannucci, C., and Adebri, G., 1339
Cogolli, P., Maiolo, F., Testaferri, L., Tiecco, M., and Tingoli, M., 1331
Cogolli, P., Testaferri, L., Tiecco, M., and Tingoli, M., 1336
Dabović, M. See Lorenc, L., 1356
Farnia, G. See Capobianco, G., 1277
Gallo, R. See Berg, U., 1350
Gambaro, A. See Capobianco, G., 1277
Gašić, M. J. See Lorenc, L., 1356
Gibson, E. P., and Turnbull, J. H., 1288
Hallett, G., and Williams, D. L. H., 1372
Hegarty, A. F., and Tuohey, P. J., 1313, 1326
Hegarty, A. F. See also Chandler, A., 1318
Ingold, K. U. See Jamieson, C., 1366
Jamieson, C., Walton, J. C., and Ingold, K. U., 1366
Juranić, I. See Lorenc, L., 1356
Klatte, G. See Berg, U., 1350
Kodama, Y., Zushi, S., Nishihata, K., Nishio, N., and Uzawa, J., 1306
Lamm, B. See Ankner, K., 1301
Legler, G., Sinnott, M. L., and Withers, S. G., 1376
Lorenc, L., Gašić, M. J., Juranić, I., Dabović, M., and Mihailović, M. L., 1356
McCormack, M. T. See Chandler, A., 1318
Maeda, K., Muszkat, K. A., and Sharafi-Ozeri, S., 1282
Maiolo, F. See Cogolli, P., 1331
Mannucci, C. See Chimichi, S., 1339
Mattia, C. A. See Capasso, S., 1297
Mazurek, A. P., 1293
Mazzarella, L. See Capasso, S., 1297
Metzger, J. See Berg, U., 1350
Mihailović, M. L. See Lorenc, L., 1356
Muszkat, K. A. See Maeda, K., 1282
Nesi, R. See Chimichi, S., 1339
Nishihata, K. See Kodama, Y., 1306
Nishio, M. See Kodama, Y., 1306
Nomura, O. See Wakatsuki, Y., 1344
Puliti, R. See Capasso, S., 1297
Scotton, M. See Chimichi, S., 1339
Severin, M. G. See Capobianco, G., 1277
Sharafi-Ozeri, S. See Maeda, K., 1282
Sinnott, M. L. See Legler, G., 1376
Testaferri, L. See Cogolli, P., 1331, 1336
Thulin, B. See Ankner, K., 1301
Tiecco, M. See Cogolli, P., 1331, 1336
Tingoli, M. See Cogolli, P., 1331, 1336
Tone, H. See Wakatsuki, Y., 1344
Tuohey, P. J. See Hegarty, A. F., 1313, 1326
Turnbull, J. H. See Gibson, E. P., 1288
Uzawa, J. See Kodama, Y., 1306
Wakatsuki, Y., Nomura, O., Tone, H., and Yamazaki, H., 1344
Walton, J. C. See Jamieson, C., 1366
Wennerström, O. See Ankner, K., 1301
Williams, D. L. H. See Hallett, G., 1372
Withers, S. G. See Legler, G., 1376
Yamazaki, H. See Wakatsuki, Y., 1344
Zushi, S. See Kodama, Y., 1306

* The author to whom correspondence should be addressed is indicated by an asterisk after his name in the heading of the Paper.

