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R.K. Brown Publications

1. Nitrations of Swollen and Collapsed Cotton Linters
with C.B. Purves
Pulp & Paper Magazine of Canada 48, No.6, 199-107
1947
2. The Reaction of Iodonium Salts with Thiol Compounds
with R.B. Sandin, R.G. Christiansen, Samuel Kirkwood
Reprinted from the Journal of American Chemical Society,
69(1550), 1947.
3. The Decomposition of Iodonium Compounds. Reaction with Pyridine
with R.B. Sandin
Reprinted from the Journal of the American Chemical Society,
69, 2253(1947).
4. Some Derivatives of Dibenzothiophene
with R.G. Christiansen and R.B. Sandin
Reprinted from the Journal of the American Chemical Society,
70, 1748 (1948).
5. The Carcinogenic Activities of Certain Analogues of
2-Acetylaminofluorene in the Rat.
with E.C. Miller, J.A. Miller and R.B. Sandin
Reprinted for private circulation from Cancer Research Vol. 9, No.8,
August, 1949.
6. Preparation of 4-Nitrodiphenyleneiodonium Chloride
with Alex Wasylewsky and R.B. Sandin
Reprinted from the Journal of the American Chemical Society,
72, 1038 (1950).
7. The Reactivity of Cellulose I
with A. Rosenthal
Pulp & Paper Magazine of Canada Vol. 51: No.6, 99-105, 1950
8. The Reduction of Some 9,10-Dihydroxy-9,10-dihydro Derivatives of
Phenanthrene and Anthracene.
with R.W. Rimmer, R.G. Christiansen and R.B. Sandin
Reprinted from the Journal of the American Chemical Society,
72, 2298 (1950).
9. Synthesis of Some Substituted Biphenyls
with Russell Melby and R.B. Sandin
Reprinted from the Journal of the American Chemical Society,
72, 1032 (1950).

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10. The Exchange Reaction between Sulfer and Dibenzothiophens-5-dioxide with R.R. Brown, Sam Kirkwood, Leo Marion, S. Naldrett, R.B. Sandin Reprinted from the Journal of American Chemical Society, 73, 465 (1951).
11. 6-Amino-2, 3-dimethylindole with N.A. Nelson, R.B. Sandin and K.G. Tanner Reprinted from the Journal of the American Chemical Society, 74, 3943 (1952).
12. The Reactivity of Cellulose II with W.J. Brickman, H.B. Dunford, E.M. Tory & J.L. Morrison Reprinted from Canadian Journal of Chemistry, 31: 550-563, June, 1953.
13. Derivatives of Indole, 6-Amino-3-indoleacetic Acid¹. with R.A. Garrison Reprinted from the Journal of the American Chemical Society, 77, 3839 (1955).
14. Some Indole Derivatives Tested for Antitubercular Activity with R.B. Snider and Margaret D. Stevenson Reprinted from the Journal of Organic Chemistry, 21, 261 (1956).
15. Concerning the mechanism of the addition of ethanesulfonyl chloride to 3, 4-dihydro-2H-pyran¹. with M.J. Baldwin Taken from the thesis of M.J. Baldwin for the degree of Doctor of Philosophy.
16. Some reactions of 2,4-dimethoxytetrahydropyrans. with M.J. Baldwin Reprinted from Canadian Journal of Chemistry, Vol. 47, No.17, 1969.
17. Reaction of ethanesulfonyl chloride with 2-methoxy-5,6-dihydro-2H-pyran. with M.J. Baldwin Reprinted from Canadian Journal of Chemistry, Vol. 47, No. 19, 1969.
18. Hydrogenolysis by $LiAlH_4-AlCl_3$ of an ether solution of norcamphor isobutylene ketal. with E.C. Loewen, W.W. Zajac Jr. Reprinted from Canadian Journal of Chemistry, Vol. 47, No. 21, 1969.
19. Synthesis of DL-chalcose from acrolein dimer. with R.M. Srivastava Reprinted from Canadian Journal of Chemistry, Vol. 48, No. 5, 1970.
20. Total synthesis of DL-glucose. with U.P. Singh Reprinted from Canadian Journal of Chemistry, Vol. 48, No. 11, 1970.
21. Fischer indole synthesis. The reaction of N-methyl-2,6-dimethylphenylhydrazine hydrochloride with 2-methylcyclohexanone and 2,6-dimethylcyclohexanone. with G.S. Bajwa Reprinted from Canadian Journal of Chemistry, Vol. 48, No. 14, 1970.

22. Preparation of cis- and trans-2, 5-dimethoxytetrahydropyran and cis- and trans-2,5-dimethoxy-6-methyltetrahydropyran.
with R.M. Srivastava
Reprinted from Canadian Journal of Chemistry, Vol. 48, No. 15, 1970.
23. Synthesis of methyl 4-O-methyl-x-DL-arabinopyranoside from 3-methoxy-3,4-dihydro-2H-pyran.
with R.M. Srivastava
Reprinted from Canadian Journal of Chemistry, Vol. 48, No. 15, 1970.
24. The Number of Hydride Ions in AlH_2Cl Available for Hydrogenolysis of 2,3-Dioxolanes.
with H.A. Davis
Reprinted from Canadian Journal of Chemistry, Vol. 49, No. 12, 1971.
25. Total Synthesis of Several Monodeoxy and Dideoxy-DL-hexopyranoses from 6,8-Dioxabicyclo[3.2.1]oct-2-ene and 6,8-Dioxabicyclo[3.2.1]oct-3-ene.
with T.P. Murray, U.P. Singh
Reprinted from the Canadian Journal of Chemistry, Vol. 49, No. 12, 1971.
26. The Influence of Heteroatom-substituted Methyl Groups and of Vinyl Groups (CR_2-CR-) Attached to C-2 of 1,3-Dioxolanes on the Ease and Direction of Hydrogenolysis of the 1,3-Dioxolanes by AlH_2Cl , AlH_3 , or $LiAlH_4$.
with H.A. Davis
Reprinted from Canadian Journal of Chemistry, Vol. 49, No. 15, 1971.
27. Total Synthesis of DL-Glucose, 3-O-Methyl-DL-glucose, and 3-Deoxy-DL-ribo-hexopyranose from 1,6:3,4-Dianhydro-B-DL-allo-hexopyranose, a Product Obtained from Acrolein Dimer.
with U.P. Singh
Reprinted from Canadian Journal of Chemistry, Vol. 49, No. 20, 1971.
28. The Formation and Isomerization of 6,8-Dioxabicyclo[3.2.1]oct-2-ene and 6,8-Dioxabicyclo[3.2.1]oct-3-ene. A Note on the Course of a Halogenation of Acetals.
with T.P. Murray, C.S. Williams
Reprinted from the Journal of Organic Chemistry, 36, 1311(1971).
29. Configuration and Conformation of the Dibromides Obtained from the Reaction of Bromine with 2-Ethoxy-5,6-dihydro-2H-pyran¹.
with R.M. Srivastava, F. Sweet, T.P. Murray
Reprinted from the Journal of Organic Chemistry, 36, 3633 (1971).
30. The Base-Catalyzed Dehydrohalogenation of Two Isomeric 3,4-Dibromo-2-ethoxytetrahydropyrans¹.
with R.M. Srivastava, F. Sweet
Reprinted from the Journal of Organic Chemistry, 37, 190(1972).
31. Hydrogenolysis of the Acetal 6,8-Dioxabicyclo[3.2.1]octane by Aluminum Chloride Hydride. Evidence for the Preferred Direction of Ring Cleavage in the Course of a-Bromination of This Acetal.
with P. Clasper
Reprinted from the Journal of Organic Chemistry 37, 3346(1972).

32. The Influence of the 2-Alkoxy Group and of C-5 Substituents on the Direction of Reductive Cleavage of 2-Alkoxytetrahydrofurans by AlH_2Cl in Ether Solution.
with P.C. Loewen, Miss L.P. Makhubu.
Reprinted from Canadian Journal of Chemistry, Vol. 50, No. 10, 1972.
pages 1502-1512.
33. Preparation of 2-Methoxytetrahydropyran-3-one from Halogenated Dihydro- and Tetrahydropyran Precursors.
with J.E. Roff
Reprinted from Canadian Journal of Chemistry, Vol. 51, No. 20, 1973
pages 3354-3356.
34. Base Catalyzed Isomerization of Epoxides to Bicyclic Allylic Alcohols, Potential Intermediates for the Total Synthesis of the DL-Aldohexoses.
Reprinted from Canadian Journal of Chemistry, Vol. 52, No. 6, 1974
pages 988-992.
with K. Ranganayakulu, U.P. Singh, T.P. Murray.