

16 MAY 1955

COMMONWEALTH



OF AUSTRALIA

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION

DIVISION OF INDUSTRIAL CHEMISTRY

TELEPHONE: MJ 1251

TELEGRAMS: CHEMRESEARCH. MELBOURNE

The Laboratory is situated at Lorimer St., Fishermen's Bend, and can be reached by Fishermen's Bend bus. Terminus at corner of Market and Flinders Streets. Route via Spencer Street Bridge.

BOX 4331 G.P.O.

MELBOURNE

CHEMICAL PHYSICS SECTION

13th April, 1955.

Sir K. S. Krishnan, F.R.S.,
Director,
National Physical Laboratory of India,
Hillside Road,
NEW DELHI 5. INDIA.

Dear Sir,

I am forwarding herewith a list of the publications of the Chemical Physics Section of this Division for 1954.

Limited numbers of reprints of these papers are available.

Yours faithfully,

A.L.G. REES
ASSISTANT CHIEF OF DIVISION.

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION
DIVISION OF INDUSTRIAL CHEMISTRY

PUBLICATIONS OF THE CHEMICAL PHYSICS SECTION
TO DECEMBER, 1954.

- ✓ 122. N.S. Bayliss and J.V. Sullivan - "Vacuum Ultraviolet Absorption Spectra of Iodine and Bromine." *J. Chem. Phys.*, 22, 1615 (1954).
123. A.F. Beecham - "The Action of Ammonia and other Bases on γ -Methyl and γ -Ethyl L-Glutamate. *J. Amer. Chem. Soc.*, 76, 4615 (1954).
124. A.F. Beecham - "L-Pyrrolidonecarboxylic Acid". *J. Amer. Chem. Soc.*, 76, 4613 (1954).
- ✓ 125. J.M. Cowley - "Intensity Anomalies in the Electron Diffraction Patterns of CuO. *J. Electrochem. Soc.*, 101, 277 (1954).
126. J.L. Farrant - "An Electron Microscope Study of Ferritin. *Biochim. et Biophys. Acta*, 13, 569 (1954).
127. J. Fridrichsons and A. McL. Mathieson - "Structure of a Derivative of Cryptopleurine. *Nature* 173, 732 (1954).
- ✓ 128. A.C. Hurley, - "The Electrostatic Calculation of Molecular Energies. I. Methods of Calculating Molecular Energies. *Proc. Roy. Soc. (A)* 226, 170 (1954).
- ✓ 129. A.C. Hurley, - "The Electrostatic Calculation of Molecular Energies. II. Approximate Wave Functions and the Electrostatic Method. *Proc. Roy. Soc., (A)* 226, 179 (1954).
- ✓ 130. A.C. Hurley, - "The Electrostatic Calculation of Molecular Energies. III. The Binding Energies of Saturated Molecules. *Proc. Roy. Soc. (A)* 226, 193 (1954).
131. S.L.H. Martin and A.L.G. Rees - "Interpretation of the Solubility of Hydrogen in Zirconium. *Trans. Faraday Soc.*, 50, 343 (1954).
132. A. McL. Mathieson and G.F. Walker - "Crystal Structure of Magnesium-Vermiculite. *Amer. Mineralogist*, 39, 231 (1954).
- ✓ 133. J.D. Morrison - "An Automatic Ionization Efficiency Digital Recorder". *Rev. Sci. Instruments*, 25, 291 (1954).

134. J.D. Morrison - "Studies of Ionization Efficiency. Part IV. The Electron Spectra of some Simple Molecules." J. Chem. Phys., 22, 1219 (1954).
135. A.J. Nicholson - "The Photochemical Decomposition of the Aliphatic Methyl Ketones." Trans. Faraday Soc., 50, 1067 (1954).
136. A.L.G. Rees - Statistical Mechanics of Two-Component Interstitial Solid Solutions." Trans. Faraday Soc., 50, 335 (1954).

MONOGRAPHS.

- x 137. A.L.G. Rees - "Chemistry of the Defect Solid State." Methuen and Co., 1954.

PATENTS.

- x 138. A. Walsh - "Multiple Monochromator". Australian Pat. Spec. No. 148,338, U.S.A. Pat. No. 2,652,742, Great Britain Pat. No. 682,149, Italian Pat. No. 478,984, French Pat. No. 1,051,318, Swedish Pat. No. 8555/51.
- x 139. A. Walsh - "Improved Monochromators". Aust. Pat. Spec. No. 18212/53, U.S.A. Pat. No. 418,702, Great Britain Pat. No. 8810/54, Italian Pat. No. 23516, French Pat. No. 666,778, Swedish Pat. No. 3985/54, Dutch Pat. No. 187340.
- x 140. A. Walsh - "Apparatus for Spectrochemical Analysis." Aust. Pat Spec. No. 23041/53.

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