VOLUME XIII

NUMBER 1

THE REVIEW OF PHYSICAL CHEMISTRY OF JAPAN

WITH

COMPLETE ABSTRACTS OF THE PHYSICO-CHEMICAL LITERATURE IN JAPAN

APRIL, 1939

BOARD OF THE PHYSICO-CHEMICAL SOCIETY OF JAPAN

President

Y. OSAKA, Member of the Imperial Academy

Adviser

E. FUJII

Chief Director

T. HANEDA, President of the Kyoto Imperial University

Director

- B. ARAKATSU, Professor of the Kyoto Imperial University
- K. IIANASHIMA, Vice-admiral of the Imperial Japanese Navy
- S. HATANO, Managing Director of Japan Society for the Promotion of Scientific Research
- S. HORIBA, Professor of the Kyoto Imperial University
- T. HORIUTI, Professor of the Hokkaido Imperial University
- T. ITIKAWA, Professor of the Hiroshima Bunrika University
- S. IIMORI, Member of Research Staff of the Institute of Physical and Chemical Research
- W. JONO, Professor of the Ryojun College of Engineering
- M. KATAYAMA, Professor Emeritus of the Tokyo Imperial University
- S. KIKUCHI, Professor of the Osaka Imperial University
- M. KIMURA, Professor of the Kyoto Imperial University
- G. KITA, Head of the Institute for Chemical Research of the Kyoto Imperial University
- M. MATSUI, Professor Emeritus of the Kyoto Imperial University
- K. MATSUNO, Professor of the Taihoku Imperial University
- Y. MATSUOKA, Rear-admiral of the Imperial Japanese Navy
- I. NITTA, Professor of the Osaka Imperial University
- J. SAMESHIMA, Professor of the Tokyo Imperial University
- N. SASAKI, Professor of the Kyoto Imperial University
- J. SHIDEI, Professor of the Tokyo Bunrika University
- S. TAMARU, Professor of the Tokyo University of Engineering
- T. TITANI, Professor of the Osaka Imperial University
- H. TOMINAGA, Professor of the Tohoku Imperial University

Treasurer

- T. NAKAMURA, Secretary of the Kyoto Imperial University
- I. IRIE, Secretary of the Kyoto Imperial University
- M. KUBOKAWA, Ex-Assistant Professor of the Kyoto Imperial University
- M. TAMURA, Assistant Professor of the Kyoto Imperial University

Secretary

II. MATSUYAMA, Laboratory Assistant of the Kyoto Imperial University

We shall be obliged to assist in the exchange of correspondence between our readers and the authors of the papers abstracted in this journal.

Secretaries.

THE REVIEW OF PHYSICAL CHEMISTRY OF JAPAN

Price \$ 3.00 for yearly subscription (including postage)

The Agent for the Sale

MARUZEN Co. Ltd., TOKYO,

JAPAN

定價 80號 (送料6錢) 購讀會員會費1年分2圓(前金,送料共)

發行所 日本物理化學研究會 調費申込 摄 替·京都6047番 發賣所 岩 波 書 店 東京市時間第一夕曜二/至 丸 善株式會社京都支店

[◇] 本誌に闘する批評,注意,要求等は京都帝國大學物理化學研究室内,田村幹維宛に願ひます。

EDITORS: SHINKICHI HORIBA (KYOTO) JITSUSABURO SAMESHIMA (TOKYO)

Rev. Phys. Chem. Japan, XIII (1939).

Contents

Originals

| Shun-ichirô Iijima: On the Adsorption of Hydrogen on Poisoned | |
|--|----|
| Nickel. (II) | 1 |
| Syoji Shida: On the Photochemical Decomposition of Ammonia | 12 |
| Ryutaro Tsuchida: Extended Co-ordination Theory of Valency. (II) Configuration of Carbon Compounds. | 31 |
| Shun-ichirô Iijima: On the Adsorption of Nitrogen on Reduced Nickel | 42 |
| Abstracts | 49 |

Published three times a year (April, August and December) by THE PHYSICO-CHEMICAL SOCIETY OF JAPAN

in the Department of Physical Chemistry, Kyoto Imperial University, Japan. Dear Sir,

Two years have passed since the English edition of "The Review of Physical Chemistry of Japan" was sent out to universities and laboratories in the world with the support of various academic circles in Japan. We flatter ourselves that this journal has taken a leading part in introducing the most recent developments of our chemical world to you through complete abstracts of Japanese physico-chemical literature.

We thank you for your kind support and encouragement in our publication under many difficulties and solicit your further support in our future activities,

Yours faithfully,

Shinkichi Horiba and Jitsusaburo Sameshima

Editors.

December, 1939.

Subscription Rate: Price \$3.00 per year (including postage)

The Agent for the Sale

MARUZEN CO. LTD., TOKYO,

JAPAN.

| Please send me "The Review of Physical Chemistry of |
|---|
| Japan" for which I enclose postal money order for \$3.00. |
| • |
| Name |
| |
| Address |
| |
| |
| |
| |