

Title	Contents of vol. 38
Author(s)	
Citation	The Review of Physical Chemistry of Japan (1969), 38(2)
Issue Date	1969-06-30
URL	<a href="http://hdl.handle.net/2433/46919">http://hdl.handle.net/2433/46919</a>
Right	
Type	Others
Textversion	publisher

# The Review of Physical Chemistry of Japan

Vol. 38, 1968

## CONTENTS

No. 1

### SPECIAL EDITION

#### THE CO-OPERATIVE RESEARCHES ON THE FUNDAMENTAL STUDIES OF THE LIQUID PHASE REACTIONS AT HIGH PRESSURES

<b>Jiro Osugi:</b> Forword on the Co-operative Researches.....	1
<b>Yoshiaki Ogo and Tatsuya Imoto:</b> Solvent Effects on Several polymerizations under High pressure .....	4
<b>Hiroji Iwasaki and Mitsuo Takahashi:</b> Studies on the Transport properties of Fluids at High Pressure I, The Viscosity of Ammonia.....	18
<b>Shinji Takahashi and Hiroji Iwasaki:</b> Studies on the Transport Properties of Fluids at High Pressure II, The Diffusion of $^{14}\text{CO}_2$ in the Carbon Dioxide-Argon and Carbon Dioxide-Methane Systems at High Pressures.....	28
<b>Tadashi Makita and Toshiharu Takagi:</b> Ultrasonic Velocity in Liquid and Thermodynamic properties of Benzene and Carbon Tetrachloride under Pressures .....	41
<b>Takashi Moriyoshi and Kazuo Mikami:</b> The Effect of Pressure and Temperature on the Base-catalyzed Condensation of Cyclohexanone.....	50
<b>Jiro Osugi, Masanori Sato and Naoyuki Ifuku:</b> The Effect of Pressure and Temperature on the Micelle Formation of Dodecylbenzylammoniumchloride Solution .....	58
<b>Keizo Suzuki, Yoshiaki Miyosaya, Masao Tsuchiya and Yoshihiro Taniguchi:</b> Biopolymer Solutions and Model Systems under High Pressure .....	63
<b>Yoshimasa Takezaki, Hiroshi Teranishi, Nobuyuki Sugita and Kiyoshi Kudo:</b> High Pressure Syntheses of Aromatic Aldehydes .....	69
<b>Gen-ichi Kaminishi and Taturo Toriumi:</b> Vapor-liquid Equilibria in the Systems: $\text{CO}_2\text{-CO}$ , $\text{CO}_2\text{-H}_2$ and $\text{CO}_2\text{-CH}_4$ .....	79

No. 2

<b>M. Srichand and M. A. Tirunarayanan:</b> A Correlation Technique for Predicting the Viscosity of Freon-12 and Freon-22 Vapours .....	85
<b>Jiro Osugi, Kiyoshi Shimizu, Kazuo Yasunami, Masato Moritoki and Akifumi Onodera:</b> Liquid-Solid Transition at High Pressure III. Benzene, Monochlorobenzene and Toluene at 25°C .....	90

**Jiro Osugi, Kumao Hamanoue and Tadafumi Tachibana:** The Polymerization of Propylene under High Pressure .....96

**Kumao Hamanoue:** Pressure Effect on the Kinetics of Polymerization I, Bulk Polymerization of Vinyl Chloride, Propylene and Butadiene .....103

**Kumao Hamanoue:** Pressure Effect on the Kinetics of Polymerization II, Bulk Copolymerization of Vinyl Chloride with Propylene and Isobutylene.....120

**Yoshiyuki Tanaka:** Chemical Reaction at High Temperature and High Pressure V, Kinetics of Solid State Reaction of Zinc with Phosphorus to form  $Zn_3P_2$  under High Pressure .....137

**Yoshiyuki Tanaka:** Chemical Reaction at High Temperature and High Pressure VI, Polymorphic Transition in  $ZnP_2$  at High Temperature and High Pressure.....151

*Published by*  
**THE PHYSICO-CHEMICAL SOCIETY OF JAPAN**  
*Faculty of Science, Kyoto University, Kyoto, Japan*