

CONTENTS

Ryo Kiyama and Shigeru Minomura: Reaction between Ammonia and Carbon Dioxide under High Pressure.	1
Ryo Kiyama and Hideo Kinoshita: Equilibrium of Urea-Water System, I. The relation between equilibrium pressure and temperature.	9
Hideo Kinoshita: Equilibrium of Urea-Water System, II. The relation between equilibrium pressure and packing ratio, analysis of gas phase, and corrosion of nickel-chrome steel.	16
Ryo Kiyama and Keizo Suzuki: Chemical Kinetics in the Reaction between NH_3 and CO_2 under Pressure.	23
Ryo Kiyama and Takao Yanagimoto: Chemical Reaction under Ultra High Pressure. Urea synthesis from solid ammonium carbonate.	32
Ryo Kiyama and Takao Yanagimoto: Ultra High Pressure Effect of Egg Albumin.	41
Ryo Kiyama, Takao Yanagimoto and Tadashi Makita: On the Air-Oxidation of Ammonium Sulphite Crystals under Ultra High Pressure.	44
Ryo Kiyama, Keizo Suzuki and Tatsuya Ikegami: The State Diagram and the Critical Constants of Amylene.	50
Ryo Kiyama, Tatsuya Ikegami and Kazuo Inoue: The State Diagram of Acetylene.	58
Ryo Kiyama and Tadashi Makita: A New Simple Viscometer for Compressed Gases and Viscosity of Carbon Dioxide.	63
Ryo Kiyama and Shigeru Minomura: The Production of Single Crystals of Lithium Fluoride.	69
Ryo Kiyama and Kazuo Inoue: The Bursting of Glass Tubes by Inner Hydrostatic Pressure.	73
Ryo Kiyama and Kazuo Inoue: The Strength of Single Crystals of Inorganic Salts.	78
Ryo Kiyama, Hideo Kinoshita and Keizo Suzuki: Distribution of the Particles in Emulsion prepared by High Pressure.	82
Jiro Osugi: On the Kinetics of Methyl Free Radicals, I. The mechanism of the association reaction between methyl radical and iodine atom.	86
Jiro Osugi: On the Kinetics of Methyl Free Radicals, II. The velocity constant of the association reaction between methyl radical and iodine atom.	92
Ryo Kiyama and Keizo Suzuki: On a Membrane Pressure Gauge.	99