

9th Symposium on High Pressure

October 5, 1967

Nagoya

By Chemical Society of Japan
Japan Society of Material Science
Japan High Pressure Institute

2A1

Satoru UEDA, Yoichi KINOMURA, Mitsue KOIZUMI and Shoichi KUMBE *:
(Institute of Scientific and Industrial Research, *College of General
Educations, Osaka University)

✓ "High Pressure Synthesis of the Materials with the Composition MAlGe_3O_8 ."

2A2

Naoto KAWAI, Akira SAWAOKA and Biji ITO :
(Faculty of Engineering Science, Osaka University, Machikaneyama-dho,
Toyonaka)

✓ "Conversion of $(\text{Mn}, \text{Co})\text{GeO}_3$ from Pyroxene to Ilmenite Structure."

2A3

Kenzo YAGI and Ken-ichi HIJIKATA :
(Faculty of Science, Hokkaido University, Sapporo)

✓ "Stability Relations of Some Pyroxines under High Pressures."

2A4

Shigeharu NAKA, Mituo HARATA and Tokiti NODA :
(Faculty of Engineering, Nagoya University, Furo-cho, Chikusa Nagoya)

✓ "Formation and Stability Field of Andradite, $\{\text{Ca}_3\}(\text{Fe}_2)(\text{Si}_3)\cdot\text{O}_{12}$."

2A5

Hashime SAITO and Masumi USHIO * :
(Faculty of Engineering, Nagoya University, Furo-cho, Chikusaku, Nagoya,
*Faculty of Engineering, Hokkaido University, Sapporo)

✓ "High Pressure Synthesis of Topaz."

2A6

✓ Shinobu YAMAOKA, Osamu FUKUNAGA and Shinroku SAITO :
(Res. Lab. Eng. Mat., Tokyo Institute of Technology, Okayama, Meguroku,
Tokyo)

"Phase Equilibria in the Systems $\text{MgO-H}_2\text{O}$ and $\text{CaO-H}_2\text{O}$ at High Temperatures
and Very High Pressures."

2A7

✓ Shigemitsu SHIN, Fumikazu KANAMARU, Mitsue KOIZUMI and Shoichi KUMBE :
(Institute of Scientific and Industrial Research, College of General
Education, Osaka University)

"Synthesis of $\text{ABO}_{3.8}$ -Type Oxide at High Oxygen Pressure and their
Properties II."

2A8

Yoshiyuki TANAKA and Jiro OSUGI :
(Faculty of Science, Kyoto University, Oiwake-cho, Sakyo-ku, Kyoto)

✓ "Chemical Reaction at High Temperature under High Pressure."

2A9

Michio INAGAKI, Kan-ichi KAMIYA, Masato MIZUTANI and Tokichi NODA :
(Faculty of Engineering, Nagoya University, Furo-cho, Chikusa-ku, Nagoya)

✓ "Graphitization of Carbon under Pressure."

2A10

Akio FUJITA, Kazuo TAKAMATSU, Shigeru MATSUZAKI :
(Motoyama Factory)

"Recrystallization of Pure Silver Plate for Domed Rupture Disc."

2A11

Yoshihiro YAMAGUCHI, Osamu TSUJI, Ryōhei IKEDA and Takeshi KATO :
(Kobe Steel Co. Ltd., Wakihamacho, Fukiai, Kobe Faculty of Engineering,
✓ Doshisha University, Karasuma-Imadegawa, Kamigyoku, Kyoto)

"Effect of Pressurization on Mechanical Properties in Some Metals."

2A12

✓ Naoto KAWAI and Yoshinari MIYAMOTO :
(Faculty of Engineering Science, Osaka University, Toyonaka, Osaka)

"Magnetic Measurement under Very High Pressure."

2A13

Shinroku SAITO, Yoshiharu OZAKI :
(Tokyo Institute of Technology, Research Lab. of Eng. Mat., Ookayama,
Meguro, Tokyo)

⊙ "High Pressure X-ray powder Diffraction."

2A14

Hisao MII, Ikuya FUJISHIRO, Masafumi SENO and Tsuyoshi NOMURA :
(Faculty of Engineering, Nagoya University, Furo-cho, Chikusa-ku, Nagoya)

⊙ "Measurement of Pressure-Induced Transformations of Bi and Fe by Means
of Sodium Chloride Internal Standard."

2A15

Ryosaku KANEDA and Shojiro YAMAMOTO :
(National Research Laboratory of Metrology, Kaga-1chome, Itabashi-ku,
Tokyo)

⊙ "Trial Manufacture of a 15 kbar Dead-weight Free-piston Gauge."

2A16

Hisao MII, Ikuya FUJISHIRO, Takayoshi NAKAFIMA and Takao HIRAMATSU :
(Faculty of Engineering, Nagoya University, Furo-cho, Chikusa-ku, Nagoya)

⊙ "Electrical Resistance Strain Gages under Hydrostatic Pressure."

2A17

Shojiro YAMAMOTO :
(National Research Laboratory of Metrology, 10-4, 1-chome, Kaga,
Itabashi-ku, Tokyo)

⊙ "Properties of Manganin Resistance Manometer."

1B1

Koichiro AOKI, Mitsuru TANAKA, Koichi HIRAMATSU and Shoji KANESHINA :
(Gifu University, Faculty of Engineering, Kagamigahara, Gifu Pref.)

"Bovine Serum Albumin Exposed to High Pressure."

1B2

Toshiharu TAKAGI, Tadashi MAKITA* :
(Faculty of Industrial Arts, Kyoto Technical University, Matsugasaki,
Sakyō-ku, Kyoto * Faculty of Engineering, Kobe University, Rokkodai,
Nada-ku, Kobe)

"Velocities of Ultrasonic Wave in Liquids at High Pressure. III (III) The Velocities in , and Thermodynamic Properties of Carbon Tetrachloride."

1B3

Keizo SUZUKI, Masao TSUCHIYA :
(Faculty of Science and Engineering, Retsumeikan University, Kita-machi,
Tojiin, Kitaku, Kyoto)

"Pressure Effects on the UV Spectrum of Phenol-Dioxane System."

1B4

Jiro OSUGI and Yoichi KITAMURA :
(Faculty of Science, Kyoto University, Kitashirakawa Oiwake-cho,
Sakyo-ku, Kyoto)

"Optical Studies of Pressure Effects. V. Pressure Effects on various Solutions of Cofaltous Chloride. "

1B5

Toyohiko YAMAZAKI and Yoshizumi WATANABE :
(Faculty of Science and Engineering, Waseda University)

"Virial Coefficient of Gas in an External Potential Field."

1B6 Toyohiko YAMAZAKI, Yoshinori KUROKAWA and Kenji SHIMOOKA :

(School of Engineerin and Science, Waseda University, Nishiokubo,
Sinziku, Tokyo)

"Differential Thermal Analysis of Heavy Hydrocarbons under High Pressure Hydrogen." a1

1B7

Kaoru DATE and Hiroji IWASAKI :
(Chemical Research Institute of Non-Aqueous Solutions, Tohoku University,
Sendai)

"Compressibility of N_2 - NH_3 Systems and of Liquid Ammonia."

1B8

Shinji TAKAHASHI and Hiroji IWASAKI :
(Chemical Research Institute of Non-Aqueous Solutions, Tohoku University,
Katahira-cho, Sendai)

"Diffusion of $1/4 CO_2$ in the CO_2 - CH_4 System."

1B9

Hiroji IWASAKI and Mitsuo TAKAHASHI :
(The Chemical Research Institute of Non-Aqueous Solutions, Tohoku University, Sendai)

"Viscosity of Gases at High Pressure-Viscosity of Ammonia."

1B10

Mitsuho HIRATA and Seiji SUDA :
(Faculty of Engineering, Tokyo Metropolitan University)

"On the Smoothing of the Data of Gas-Liquid Equilibrium."

1B11

Mitsuho HIRATA, Seiji SUDA and Masamichi AKIMOTO :
(Faculty of Engineering, Tokyo Metropolitan University)

"Liquid-Gas Equilibrium Measurements of n-Butane and its Mixtures."

1B12

Genichi UENISHI and Tatsuro TORIMI :
(The Chemical Research Institute of Non-Aqueous Solutions, Tohoku University, Sendai)

①

"Measurement of Gas-Liquid Equilibria under High Pressure, $\text{CH}_4\text{-CO}_2$ System."

1B13

Hironobu KUBOTA, Kiyokatsu UEDA and Tadashi MAKITA :
(Faculty of Engineering, Kobe University, Rokkodai, Nada-ku, Kobe)

①

"Solid-Liquid Phase Equilibrium of Organic Solvent under High Pressure."

1B14

Yoshisada OGINO and Sentaro OZAWA :
(Department of Chemical Engineering, Faculty of Engineering, Tohoku University, Aramaki Aoba, Sendai)

①

"Rate of Adsorption of Carbon dioxide on Aluminas at High Pressure."

- 2B1 Takashi MORIYOSHI, Toshiichi HAMAMOTO and Kazuro KIKAMI :
(Faculty of Engineering, Tokushima University, Minami-Josanjima-cho,
Tokushima)
"Pressure Effect on the Condensation of Cyclohexanone."
- 2B2 Masahiro HIRATA, Takashi MORIYOSHI and Jiro OSUGI* :
(Faculty of Engineering, Tokushima University, Minami-Josanjima-cho,
Tokushima * Faculty of Science, Kyoto University, Yoshida-cho,
Sakyo-ku, Kyoto)
"Pressure Effect on the Condensation of Diisobutylketone."
- 2B3 Jiro OSUGI and Kumao HAMANOUB :
(Faculty of Science, Kyoto University, Yoshida-Honmachi, Sakyo-ku, Kyoto)
"Bulk Polymerization of Vinyl Chloride and Copolymerization with
Propylene under High Pressure."
- 2B4 Jiro OSUGI, Kumao HAMANOUB and Tsukio OTANI :
(Faculty of Science, Kyoto University, Yoshida-Honmachi, Sakyo-ku,
Kyoto)
"Solid State Polymerization of Torioxane under High Pressure."
- 2B5 Tatsuya IMOTO, Yoshiaki OGO and Tomomasa MITANI :
(Faculty of Engineering, Osaka City University, Sugimoto-cho,
Sumiyoshi, Osaka)
"The Polymerization of -Methylstyrene under High Pressure."
- 2B6 Minoru TERADA, Naoto ASAMI, Masao YAMADA and Shuichiro TAKAHASHI :
(Research & Engineering Laboratory, Mitsubishi Atomic Power Industries.
Inc. Kitabukuromachi, Omiya)
"Solid State Polymerization of Acrylamide under Ultra High Pressure."
- 2B7 Tsutomu ASANO, Ryoza GOTO, Akira SEBA :
(Faculty of Science, Kyoto University)
"Organic Reactions under High Pressure II. Effect of Pressure on the
Competitive Nitration of Benzene and T-Butylbenzene."
- 2B8 Takashi MORIYOSHI, Masanobu SABKI, Katsuhiko TAMURA and Jiro OSUGI :
(Faculty of Engineering, Tokushima University, Minami-jyosanjima-cho
Tokushima Faculty of Science, Kyoto University, Yoshida-cho,
Sakyo-ku, Kyoto)
"Pressure Effect on the Pinacol Rearrangement."

2B9

Naoyuki TODO, Haruo TAKAYA, Tadasuke HOSOYA and Toshiro MINEGISHI :
(Government Chemical Industrial Research Institute, Tokyo, Mita,
Meguroku, Tokyo)

2B10 "Activation Volume for the Acid-Catalyzed Hydration of Propylene."

2B10

Tatsuya INOTO, Yoshiaki OGO and Hideaki OKA :
(Osaka City University, Faculty of Engineering)

✓ "Ortho Effect under High Pressure."

2B11

Tadashi YAMASHITA and Seiji TERASAWA :
(Faculty of Engineering, Tokyo Institute of Technology, Ookayama,
Meguro, Tokyo)

"Activation Volumes. Elimination Reaction of 2-Bromobutane with Alkoxide."

2B12

Hidenori ITSUKI and Seiji TERASAWA :
(Faculty of Engineering, Tokyo Institute of Technology, Ookayama,
Meguro, Tokyo)

"Activation Volumes of Acid Hydrolysis of Tert-Butyl Acetate."

2B13

Discontinuance

2B14

Mikitake NAKAYAMA and Tsutomu MIZOROKI :
(Government Industrial Research Institute Tokyo, Mita, Meguro-ku,
Tokyo)

"The Synthesis of Carboxylic Acids by the Reaction of Aryl Halides
with Carbon Monoxide using Nickel Carbonyl Catalyst."

2B15

Kiyaoshi KUDO, Nobuyuki SUGITA, Hiroshi TERANISHI and Yoshimasa TAKEZAKI :
(Institute for Chemical Research, Kyoto University, Kyoto)

✓ "Reaction of Phenol with Carbon Monoxide under High Pressure."

2B16

Takashi YASUTOMI, Nobuyuki SUGITA, Hiroshi TERANISHI and Yoshimasa
TAKEZAKI :
(Institute for Chemical Research, Kyoto University, Kyoto)

✓ "Reaction of Acrylic Acid and Carbon Monoxide under High Pressures."

S1

Yutaka TAKAGI :
(Faculty of Engineering, Nagoya University, Furo-cho, Chikusaku, Nagoya)

✓ "Some Aspects of Phase Transitions under High Pressure."

S 2

Shikaji TSUDA :
(Executive Director, Nagoya Factory, Toa Gosei Chemical Industry Co. Ltd.,
Nagoya)

✓ "Various Problems in Operation of High-Pressure Chemical Plant."

S3

Masao NISHIHARA :
(Faculty of Engineering, Doshisha University, Kyoto) /

① "Strength of Metallic Materials under Hydrostatic Pressure."