

研究業績リスト

A 原著論文、総合報告

学習院大学

- 電子線回折

Use of Imaging plates in gas-phase electron diffraction. Iijima, Takao; Suzuki, Wakana; Yano, Yohko, F. Japanese Journal of Applied Physics, Part 1 (1998), 37(9A), 5064-5.

Molecular structure of isopropylamine and cyclopropylamine as investigated by gas-phase electron diffraction. Iijima, Takao; Kondou, Tsuyoshi; Takenaka, Takayuki. Journal of Molecular Structure (1998), 445(1-3), 23-8.

Molecular structure of chlorotrimethylsilane and methyltrichlorosilane as investigated by gas-phase electron diffraction. Iijima, Takao; Shimoda, Teruyoshi; Hattori, Hiroshi. Journal of Molecular Structure (1995), 350(1), 57-61.

Molecular structure of 1,1,1-trichloroethane. Iijima, Takao; Wada, Ryuichiro. Journal of Molecular Structure (1990), 221, 7-13.

Zero-point average structure of methanol. Iijima, Takao. Journal of Molecular Structure (1989), 212, 137-41.

Vibrational correction for methylamine and determination of the zero-point average structure. Iijima, Takao. Bulletin of the Chemical Society of Japan (1986), 59(3), 853-8.

The molecular structure of methylamine in the vapor phase. Iijima, Takao; Jimbo, Hideyuki; Taguchi, Masami. Journal of Molecular Structure (1986), 144(3-4), 381-3.

Molecular structure of silicon tetrabromide by gas phase electron diffraction. Iijima, Takao; Jimbo, Hideyuki; Taguchi, Masami. Journal of Molecular Structure (1986), 144(1-2), 191-2.

Construction of an electron diffraction unit for gases as fitted for the use of photographic sheet films. Taguchi, Masami; Iijima, Takao. Japanese Journal of Applied Physics, Part 1 (1984), 23(11), 1509-17.

Construction of a telefocus gun for gas electron diffraction experiments. Taguchi, Masami; Iijima, Takao. Japanese Journal of Applied Physics, Part 1 (1984), 23(7), 921-4.

- X線回折(液体)

Convergence in the calculation of x-ray scattering intensities from liquids. Iijima, Takao. Chemical Physics Letters (1999), 299(5), 488-92.

Structure of Liquid Chloroform as Investigated by Energy-Dispersive X-Ray Diffraction. Takahashi, Akinori; Yano, Yohko F.; Iijima, Takao. Bulletin of the Chemical Society of Japan (1998), 71(9), 2081-6.

A negative experimental result for the structural change of benzene crystal in the premelting

process. Kitagawa, So; Fujiwara, Yohko; Iijima, Takao. Japanese Journal of Applied Physics, Part 1 (1996), 35(11), 5787-9.

The mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, Takao. Journal of Molecular Structure (1996), 376, 525-9.

An X-ray diffraction study of the structure and molecular motion in liquid carbon disulfide. Iijima, Takao; Nishikawa, Keiko. Journal of Molecular Structure (1995), 352/353, 213-8.

Structure model of liquid water as investigated by the method of reciprocal space expansion. Iijima, Takao; Nishikawa, Keiko. Journal of Chemical Physics (1994), 101(6), 5017-23.

Anharmonicity of the OH...O hydrogen bond in liquid water. Iijima, Takao. Chemical Physics Letters (1994), 217(5-6), 503-6.

Accuracy of intensity measurement by use of an area detector with a photostimulable phosphor screen, as confirmed by measuring scattering intensity from a liquid. Nishikawa, Keiko; Sakamoto, Yasuhiro; Iijima, Takao. Japanese Journal of Applied Physics, Part 1 (1991), 30(6), 1303-6.

X線を用いた分子性液体と柔粘性結晶の構造の研究. 西川恵子. 日本結晶学会誌 (1989), 31, 222-8.

Structural studies of liquid 1,1,1-trichloroethane by means of x-ray diffraction. Nishikawa, Keiko; Iijima, Takao. Bulletin of the Chemical Society of Japan (1988), 61(1), 217-21.

エネルギー分散型X線回折法による 1,1,1-トリクロロエタンの液体構造の決定. 西川恵子, 長野和美, 飯島孝夫. 日本化学会誌 (1986), 1479-83.

Reply to comment on the use of "Reciprocal space expansion" in the analysis of structure factors of liquids. Iijima, Takao; Nishikawa, Keiko. Chemical Physics Letters (1986), 127(4), 411.

Reciprocal space expansion in the analysis of x-ray scattering intensities from liquid carbon tetrachloride. Nishikawa, Keiko; Iijima, Takao. Bulletin of the Chemical Society of Japan (1986), 59(1), 117-20.

Determination of the energy spectrum of the primary beam in energy-dispersive diffractometry. Nishikawa, Keiko; Ishizawa, Keiko; Kodera, Yasuto; Iijima, Takao. Japanese Journal of Applied Physics (1986), 25, 1431-4.

Structure model for liquid neopentane. Nishikawa, Keiko. Bulletin of the Chemical Society of Japan (1986), 59(9), 2920-2.

Mean square deviations of interatomic distances in liquid carbon tetrachloride. Nishikawa, Keiko; Iijima, Takao. Bulletin of the Chemical Society of Japan (1985), 58(4), 1220-4.

Structure model for liquid carbon tetrachloride. Nishikawa, Keiko; Iijima, Takao. Bulletin of the Chemical Society of Japan (1985), 58(4), 1215-19.

Use of reciprocal-space expansion in the analysis of x-ray scattering intensities from liquids. Iijima, Takao; Nishikawa, Keiko. Chemical Physics Letters (1985), 115(6), 522-4.

Corrections for intensity data in energy-dispersive x-ray diffractometry of liquids. Application to carbon tetrachloride. Nishikawa, Keiko; Iijima, Takao. Bulletin of the Chemical Society of Japan (1984), 57(7), 1750-9.

Clathrate-like structure of water around some nonelectrolytes in dilute solution as revealed by computer simulation and x-ray diffraction studies. Tanaka, Hideki; Nakanishi, Koichiro; Nishikawa, Keiko. Inst. Mol. Sci., Kyoto Univ. Journal of Inclusion Phenomena (1984), 2, 119-26.

X-ray diffraction study of mixing states in the carbon tetrachloride solutions of methanol and pentane. Tanaka, Masami; Nishikawa, Keiko; Tohji, Kazuyuki; Fujiyama, Tsunetake. Fac. Sci., Tokyo Metrop. Univ., Tokyo, Japan. Bulletin of the Chemical Society of Japan (1983), 56(5), 1273-8.

ベンゼンの融解前駆現象 速い構造変化を追跡するためのエネルギー分散型X線回折データ処理システムの開発. 飯島孝夫, 西川恵子, 田路和幸, 村田好正. 日本結晶学会誌 (1982), 24, 336-9.

X-ray diffraction study of liquid methanol. Tanaka, Masami; Nishikawa, Keiko; Fujiyama, Tsunetake. Fac. Sci., Tokyo Metrop. Univ., Tokyo, Japan. Chemistry Letters (1981), (3), 327-9.

X-ray diffraction study of liquid water. Nishikawa, Keiko; Kitagawa, Nobuko. Bulletin of the Chemical Society of Japan (1980), 53(10), 2804-8.

- X線回折(気体)

X-ray inelastic scattering intensities measured by energy-dispersive diffractometry. Iijima, Takao; Nishikawa, Keiko. Journal of Applied Crystallography (1988), 21, 903-8.

Binding and correlation effects in simple molecules as studied by gas-phase x-ray diffraction. Nishikawa, Keiko; Iijima, Takao. Portugaliae Physica (1988), 19(3/4), 359-62.

X-ray inelastic scattering intensities measured by energy-dispersive diffractometry. Iijima, Takao; Nishikawa, Keiko. Portugaliae Physica (1988), 19(3/4), 331-3.

Binding and correlation effects in nitrogen and oxygen, and the correlation effects in neon, as studied by gas-phase x-ray diffraction. Nishikawa, Keiko; Iijima, Takao. Journal of Chemical Physics (1987), 87(7), 3753-7.

The binding and correlation effects in carbon dioxide as investigated by gas x-ray diffraction. Mitsuhashi, Toshiyuki; Iijima, Takao. Chemical Physics Letters (1984), 109(2), 195-7.

Construction of a rotating anode of tungsten by hard soldering. Mitsuhashi, Toshiyuki. Japanese Journal of Applied Physics, Part 1 (1984), 23(1), 134.

An easily constructed rotating tungsten anode. Mitsuhashi, Toshiyuki. Japanese Journal of Applied Physics (1981), 20(12), 2401-2.

使用済みの封入管を利用した回転対陰極型X線管の組み立て. 三橋利行. 日本結晶学会誌

(1981), 23, 36-8.

- 小角散乱

Small-angle x-ray scattering study of fluctuations in ethanol and water mixtures.

Nishikawa, Keiko; Iijima, Takao. Fac. Educ., Yokohama Natl. Univ., Yokohama, Japan. Journal of Physical Chemistry (1993), 97(41), 10824-8.

Structure and mixing states of liquids and solutions as investigated by x-ray diffraction.

Iijima, Takao; Nishikawa, Keiko. Trends in Chemical Physics (1991), 1, 159-72.

Simulation of small-angle x-ray scattering behavior of activated carbon fibers adsorbing water.

Fujiwara, Yoko; Nishikawa, Keiko; Iijima, Takao; Kaneko, Katsumi. Journal of the Chemical Society, Faraday Transactions (1991), 87(17), 2763-8.

Small-angle x-ray scattering study of fluctuations in 1-propanol-water and 2-propanol-water systems.

Hayashi, Hisashi; Nishikawa, Keiko; Iijima, Takao. Journal of Physical Chemistry (1990), 94(21), 8334-8.

Structural study of tert-butyl alcohol and water mixtures by x-ray diffraction.

Nishikawa, Keiko; Iijima, Takao. Journal of Physical Chemistry (1990), 94(16), 6227-31.

Easy derivation of the formula relating the fluctuations of a binary system to the x-ray scattering intensity extrapolated to $s = 0$.

Hayashi, Hisashi; Nishikawa, Keiko; Iijima, Takao. Journal of Applied Crystallography (1990), 23(2), 134-5.

The micropore swelling of activated carbon fibers with water adsorption studied by use of in situ small angle x-ray scattering.

Kaneko, K.; Fujiwara, Y.; Nishikawa, K. Fac. Sci., Chiba Univ., Chiba, Japan. Journal of Colloid and Interface Science (1989), 127(1), 298-9.

Construction of a small-angle x-ray scattering diffractometer for the study of fluctuations in solutions.

Hayashi, Hisashi; Nishikawa, Keiko; Iijima, Takao. Japanese Journal of Applied Physics, Part 1 (1989), 28(8), 1501-3.

Temperature dependence of the concentration fluctuation, the Kirkwood-Buff parameters, and the correlation length of tert-butyl alcohol and water mixtures studied by small-angle x-ray scattering.

Nishikawa, Keiko; Hayashi, Hisashi; Iijima, Takao. Journal of Physical Chemistry (1989), 93(17), 6559-65.

Fluctuations in the particle number and concentration and the Kirkwood-Buff parameters of tert-butyl alcohol and water mixtures studied by small-angle x-ray scattering.

Nishikawa, Keiko; Kodera, Yasuto; Iijima, Takao. Journal of Physical Chemistry (1987), 91(13), 3694-9.

Simple relationship between the Kirkwood-Buff parameters and the fluctuations in the particle number and concentration obtained by small-angle x-ray scattering. Application to tert-butyl alcohol and water mixtures.

Nishikawa, Keiko. Chemical Physics Letters (1986), 132(1), 50-4.

- X線反射率測定(液体表面)

Correlation between surface and bulk structures of alcohol-water mixtures. Yano, Yohko F.. Journal of Colloid and Interface Science (2004), accepted.

ハーバード大学珍?!留学記. 矢野(藤原)陽子, 日本結晶学会誌, (2002) 44, 前編 335-338, 後編 400-403.

Surface structure of aqueous 2-butoxyethanol mixtures studied by x-ray reflection. Yano, Yohko F.. Journal of Chemical Physics (2002), 116(18), 8093-6.

Construction of a grazing incidence x-ray reflection system for liquid-vapor interfaces by use of an imaging plate. Yano, Yohko F.; Iijima, Takao. Journal of Chemical Physics (2000), 112(21), 9607-16.

北大時代

Small-angle electron scattering and electron density in carbon dioxide. Sasaki, Yorihiro; Konaka, Shigehiro; Iijima, Takao; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. International Journal of Quantum Chemistry (1982), 21(2), 475-85.

Nickel tetracarbonyl, Ni(CO)₄. I. Molecular structure by gaseous electron diffraction. II. Refinement of quadratic force field. Hedberg, Lise; Iijima, Takao; Hedberg, Kenneth. Dep. Chem., Oregon State Univ., Corvallis, OR, USA. Journal of Chemical Physics (1979), 70(7), 3224-9.

The molecular structure of ethyl chloride as determined by a combined use of the electron-diffraction data and the spectroscopic moments of inertia. Hirota, Masashi; Iijima, Takao; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1978), 51(6), 1594-8.

Molecular structure of 2,2-dichloropropane as determined by a combined use of the electron-diffraction data and the spectroscopic moments of inertia. Hirota, Masashi; Iijima, Takao; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1978), 51(6), 1589-93.

Molecular structure of 2-chloropropane, as determined by a combined use of the electron diffraction data and the spectroscopic moments of inertia. Iijima, Takao; Seki, Schigenori; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1977), 50(10), 2568-72.

The molecular structure of dimethyl sulfide. Iijima, Takao; Tsuchiya, Shuzo; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1977), 50(10), 2564-7.

An electron diffraction investigation of the molecular structure of monochlorodiborane, B₂H₅Cl. Iijima, Takao; Hedberg, Lise; Hedberg, Kenneth. Dep. Chem., Oregon State Univ., Corvallis, OR, USA. Inorganic Chemistry (1977), 16(12), 3230-3.

An electron-diffraction investigation of the molecular structure of toluene. Iijima, Takao. Dep. Chem., Oregon State Univ., Corvallis, OR, USA. Zeitschrift fuer Naturforschung, Teil A: (1977), 32A(9), 1063-4.

Molecular structure of benzene. Tamagawa, Koichi; Iijima, Takao; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Journal of Molecular Structure (1976), 30(2),

243-53.

Molecular structure of 2-fluoropropane as determined by gas electron diffraction.

Kakubari, Hironobu; Iijima, Takao; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1975), 48(7), 1984-6.

気体分子の構造. 飯島孝夫. 北大理 日本結晶学会誌 (1975), 17(1), 21-35.

Small-angle electron scattering by gases. Carbon disulfide and carbon tetrachloride.

Nagashima, Makoto; Konaka, Shigehiro; Iijima, Takao; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1973), 46(11), 3348-52.

Molecular structure of ethane. Comparison of the structure parameters of ethane-1,1,1-d₃ in the torsionally excited state and in the ground state.

Iijima, Takao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1973), 46(8), 2311-4.

Electron diffraction study of dimethylmercury.

Kashiwabara, Kuniaki; Konaka, Shigehiro; Iijima, Takao; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1973), 46(2), 407-9.

Bond alternation in tropone as studied by gas electron diffraction.

Ogasawara, Makoto; Iijima, Takao; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1972), 45(11), 3277-82.

Zero-point average structure of a molecule containing two symmetric internal rotors.

Acetone. Iijima, Takao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1972), 45(12), 3526-30.

Zero-point average structures of acetyl chloride and acetyl bromide.

Tsuchiya, Shuzo; Iijima, Takao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Journal of Molecular Structure (1972), 13(3), 327-38.

Molecular structure of propane.

Iijima, Takao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1972), 45(5), 1291-3.

Zero-point average structure of a molecule containing a symmetric internal rotor.

Iijima, Takao; Tsuchiya, Shuzo. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Journal of Molecular Spectroscopy (1972), 44(1), 88-107.

Molecular structure and phase-shift of tetramethyllead as studied by gas-electron diffraction.

Oyamada, Takeo; Iijima, Takao; Kimura, Masao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1971), 44(10), 2638-42.

Zero-point average structure of acetone.

Iijima, Takao. Fac. Sci., Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1970), 43(4), 1049-53.

Zero-point average structure of acetaldehyde.

Iijima, Takao; Kimura, Masao. Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1969), 42(8), 2159-64.

Electron diffraction studies of formaldehyde, acetaldehyde, and acetone. Kato, Chuichi; Konaka, Shigehiro; Iijima, Takao; Kimura, Masao. Hokkaido Univ., Sapporo, Japan. Bulletin of the Chemical Society of Japan (1969), 42(8), 2148-58.

気体電子回折と分子の結合エネルギー. 飯島孝夫. 北大理 日本結晶学会誌 (1966), 8, 83-90.

Relation between the binding energy and the scattering intensity of electrons from gas molecules. Iijima, Takao. Hokkaido Univ., Sapporo, Bulletin of the Chemical Society of Japan (1966), 39(4), 843-4.

Small-angle scattering from methane, ammonia, and water by fast electrons. Iijima, Takao; Bonham, Russell A.; Tavard, Claude; Roux, Monique; Cornille, Marguerite. Hokkaido Univ., Sapporo, Bulletin of the Chemical Society of Japan (1965), 38(10), 1757-60.

On the Fourier transform of molecular intensity curve including the cosine-phase term. Kimura, M.; Iijima, T.. Hokkaido Univ., Sapporo, Japan. Journal of Chemical Physics (1965), 43(6), 2157-8.

Indiana 大学時代

Preliminary electron-diffraction study of H₂ at small scattering angles. Bonham, R. A.; Iijima, T.. Indiana Univ., Bloomington, Journal of Chemical Physics (1965), 42(7), 2612-14.

On planetary electron corrections to electron diffraction intensity data. Iijima, T.; Bonham, R. A.. Indiana Univ., Bloomington, Journal of Physical Chemistry (1964), 68(11), 3146-9.

The theory of electron scattering from molecules. III. Hydrogen ion molecule . Iijima, T.; Bonham, R. A.. Indiana Univ., Bloomington, Journal of Physical Chemistry (1963), 67(12), 2769-73.

The theory of electron scattering from molecules. II. Molecular hydrogen. Bonham, R. A.; Iijima, T.. Indiana Univ., Bloomington, Journal of Physical Chemistry (1963), 67(11), 2266-72.

The theory of electron scattering from molecules. I. Theoretical development. Iijima, T.; Bonham, R. A.; Ando, T. Indiana Univ., Bloomington, Journal of Physical Chemistry (1963), 67(7), 1472-4.

X-ray scattering factor of a hydrogen atom in a hydrogen molecule. Iijima, T.; Bonham, R. A.. Indiana Univ., Bloomington, Acta Crystallographica (1963), 16(10), 1061-2.

東大時代

The distribution function of internal displacement coordinates in linear XY₂ molecules. Morino, Yonezo; Iijima, Takao. Univ. Tokyo, Bulletin of the Chemical Society of Japan (1963), 36(4), 412-19.

Shrinkage effect for nonlinear conformations. Morino, Y.; Cyvin, S. J.; Kuchitsu, K.; Iijima, T.. Univ. Tokyo, Journal of Chemical Physics (1962), 36, 1109-10.

デジタル電子計算機による気体電子線回折の計算. 森野米三, 朽津耕三, 飯島孝夫, 村田好正. 東大理 日本化学会誌 (1962), 83, 803-7.

Accurate determination of interatomic distances of carbon disulfide. Morino, Yonezo; Iijima, Takao. Univ. Tokyo, Bulletin of the Chemical Society of Japan (1962), 35 1661-7.

The effect of molecular vibration upon interatomic distances of carbon disulfide. Morino, Yonezo; Iijima, Takao. Univ., Tokyo, Journal of the Physical Society of Japan (1962), 17(Suppl. B-II), 27-31.

Physical significance of anharmonic potential constants for triatomic molecules. Kuchitsu, Kozo; Iijima, Takao; Morino, Yonezo. Univ. Tokyo, Proc. Intern. Symp. Mol. Struct. Spectry., Tokyo (1962), (C308), 4 pp.

An electron-diffraction investigation of the molecular structure of hydrazine. Morino, Yonezo; Iijima, Takao; Murata, Yoshitada. Univ. Tokyo, Bulletin of the Chemical Society of Japan (1960), 33, 46-8.

Mean-square amplitudes and force constants of tetrahedral molecules. I. Carbon tetrachloride and germanium tetrachloride. Morino, Yonezo; Nakamura, Yasushi; Iijima, Takao. Univ. Tokyo, Journal of Chemical Physics (1960), 32, 643-52.

B 単行本、ハンドブック、講座、解説など

(第4章) 気体、液体、非晶質による回折 4.2 電子線. 飯島孝夫. 日本結晶学会「結晶解析ハンドブック」編集委員会編 結晶解析ハンドブック (1999), 181-7. 共立出版

Structure data of free polyatomic molecules, Molecules containing five or more carbon atoms. Graner, G.; Hirota, E.; Iijima, T.; Kuchitsu, K.; Ramsay, D.A.; Vogt, J.; Vogt, N. Editor: Kuchitsu, K. Landolt-Boernstein Numerical Data and Functional Relations in Science and Technology. New Series **II/25-D** (2003). Springer-Verlag, 359 pages.

Structure data of free polyatomic molecules, Molecules containing three or four carbon atoms. Graner, G.; Hirota, E.; Iijima, T.; Kuchitsu, K.; Ramsay, D.A.; Vogt, J.; Vogt, N. Editor: Kuchitsu, K. Landolt-Boernstein Numerical Data and Functional Relations in Science and Technology. New Series **II/25-C** (2000). Springer-Verlag, 481 pages.

Structure data of free polyatomic molecules, Molecules containing one or two carbon atoms. Graner, G.; Hirota, E.; Iijima, T.; Kuchitsu, K.; Ramsay, D.A.; Vogt, J.; Vogt, N. Editor: Kuchitsu, K. Landolt-Boernstein Numerical Data and Functional Relations in Science and Technology. New Series **II/25-B** (1999). Springer-Verlag, 512 pages.

Structure data of free polyatomic molecules, Inorganic molecules. Graner, G.; Hirota, E.; Iijima, T.; Kuchitsu, K.; Ramsay, D.A.; Vogt, J.; Vogt, N. Editor: Kuchitsu, K. Landolt-Boernstein Numerical Data and Functional Relations in Science and Technology. New Series **II/25-A** (1998). Springer-Verlag, 359 pages.

Structure of free polyatomic molecules—Basic data—. Graner, G.; Hirota, E.; Iijima, T.; Kuchitsu, K.; Ramsay, D.A.; Vogt, J.; Vogt, N. Editor: Kuchitsu, K. (1998). Springer-Verlag, 214 pages.

Structure data of free polyatomic molecules. Graner, G.; Hirota, E.; Iijima, T.; Kuchitsu, K.; Ramsay, D.A.; Vogt, J.; Vogt, N. Editor: Kuchitsu, K. Landolt-Boernstein Numerical Data and Functional Relations in Science and Technology. New Series **II/23** (1995). Springer-Verlag, 409 pages.

自由分子内の結合距離と結合角. 飯島孝夫, 谷本光敏. 笠井暢民編 化学便覧 (改訂4版) 基礎編II (1993), 表15.1-3. 丸善

Structure data of free polyatomic molecules. Hirota, E.; Iijima, T.; Kuchitsu, K.; Lafferty, W.J.; Ramsay, D.A.; Vogt, J. Editor: Kuchitsu, K. Landolt-Boernstein Numerical Data and Functional Relations in Science and Technology. New Series **II/21** (1992). Springer-Verlag, 484 pages.

気体分子の構造解析. 飯島孝夫, 村田好正, 朽津耕三. 三宅静雄編 電子回折・電子分光 (1991), 205-35. 実験物理学講座 21, 共立出版

Gas-phase X-ray diffraction. Iijima, Takao; Nishikawa, Keiko; Mitsuhashi, Toshiyuki. Editor(s): Hargittai, Istvan; Hargittai, Magdolna Stereochemical Application of Gas-phase Electron Diffraction: Part A (1988), 511-38. VCH Publishers INC.

Structure data of free polyatomic molecules. Callomon, J.H.; Hirota, E.; Iijima, T.; Kuchitsu, K.; Lafferty, W.J. with assistance of Mez-Starck, B. and Mutter, R. Editor(s): Hellwege, K.-H.; Hellwege, A.M. Landolt-Boernstein Numerical Data and Functional Relations in Science and Technology. New Series **II/15** (1987). Springer-Verlag, 608 pages.

Energy-dispersive x-ray diffractometry for gases. Iijima, Takao; Mitsuhashi, Toshiyuki. Editor(s): Hosoya, Sukeaki; Iitaka, Yoichi; Hashizume, Hiroo. X-Ray Instrum. Photon Fact.: Dyn. Anal. Micro Struct. Matter (1986), 257-67. KTK Sci. Pub., Tokyo, Japan

自由分子内の結合距離と結合角. 飯島孝夫, 廣瀬千秋. 笹田義夫編 化学便覧 基礎編 II (1984), 表 15.1.1. 丸善

化学結合を考える. 飯島孝夫, 小谷正博. (1981). 講談社

(第2部) データ処理. 飯島孝夫, 佐々木不可止. 北大理 廣田栄治, 外山正春編 化学者のための基礎数学 (1972), 83-140. 南江堂

パラメトロン計算機はどのように使われるか. 飯島孝夫, 森野米三. 東大理 化学の領域 (1960), 14(8), 522-30.

気体電子線回折. 朽津耕三, 廣田栄治, 中村泰, 飯島孝夫. 東大理 化学の領域 (1957), 11, 852-76.