

JOURNAL
OF THE
COLLEGE OF SCIENCE,
IMPERIAL UNIVERSITY OF TOKYO.

GENERAL INDEX
TO
VOLUMES I.—XXV.
1887—1908.

COMPILED BY
THE COMMITTEE OF PUBLICATION.

PUBLISHED BY THE UNIVERSITY,
TOKYO.
1913.

Year of Publication of Vols. I.—XXV.

Vol. I.,	complete in 4 Parts,	1886-87
„ II.,	„ „ 5 „	1888-89
„ III.,	„ „ 4 „	1889-90
„ IV.,	„ „ 2 „	1891
„ V.,	„ „ 4 „	1892-93
„ VI.,	„ „ 4 „	1893-94
„ VII.,	„ „ 5 „	1894-95
„ VIII.,	„ „ 2 „	1894-95
„ IX.,	„ „ 3 „	1895-98
„ X.,	„ „ 3 „	1896-98
„ XI.,	„ „ 4 „	1898-99
„ XII.,	„ „ 4 „	1898-1900
„ XIII.,	„ „ 4 „	1900-01
„ XIV.,	„ „ 1 „	1904
„ XV.,	„ „ 3 „	1901
„ XVI.,	„ „ 15 Articles.	1901-03
„ XVII.,	„ „ 12 „	1901-04
„ XVIII.,	„ „ 8 „	1903-04
„ XIX.,	„ „ 20 „	1903-04
„ XX.,	„ „ 12 „	1904-05
„ XXI.,	„ „ 12 „	1906-07
„ XXII.,	„ „ 1 „	1906
„ XXIII.,	„ „ 15 „	1907-08
„ XXIV.,	„ „ 1 „	1908
„ XXV.,	„ „ 19 „	1908

Note: Vols. I.—XV. appeared in Parts with a consecutive paging for each volume, but beginning with Vol. XVI. each volume appeared in the form of separate Articles with a paging of their own.

Since most of the volumes were completed in more than a single year, the years given in the above list do not always definitely indicate those in which the several papers were published. These are indicated for each paper in Part I. of this index.

CONTENTS.

	Page
I. Author Index to Vols. I.—XXV.	1
II. Subject Index to Vols. I.—XXV.	31

I.
AUTHOR INDEX

TO
VOLS. I.—XXV.

AICHI, K[eiichi], and TANAKADATE, T[orashiro].

1906. Theory of the rainbow due to a circular source of light. XXI., Art. 3,
1-29.

AIDA, T[atsuo].

1907. Appendicularia of Japanese waters. XXIII., Art. 5, 1-25.

CHIKASHIGÉ, Masumi.

1895. Decomposition of sulphates by ammonium chloride in analysis according to Fresenius. VII., 251-252.
1895. Ewart Johnstone's way to prepare nitric oxide. VII., 253-254.
1895. Mercury perchlorates. IX., 77-84.
1897. The atomic weight of Japanese tellurium. IX., 123-128.

CHO, S[hunichi], and MAJIMA, R[iko].

1908. Ueber den Hauptbestandteil des japanischen Lacks. XXV., Art. 6,
1-17.

DEAN, Bashford.

1904. Notes on Japanese myxinoids. A new genus *Paramyxine*, and a new species *Homea okinoseana*. Reference also to their eggs. XIX., Art. 2, 1-23.

1904. Notes on *Chimæra*. Two Japanese species, *C. phantasma* Jordan and Snyder, and *C. mitsukurii* n. s., and their egg cases. XIX., Art. 3, 1-9.
1904. Notes on the long-snouted chimæroid of Japan, *Rhinochimæra* (*Harriotta*) *pacifica* (Garman) Mitsukuri. XIX., Art. 4, 1-20.

DIVERS, Edward.

1894. The manufacture of calomel in Japan. VII., 1-14.
1895. The acid sulphate of hydroxylamine. VII., 249-250.
1898. Absorption of nitric oxide in gas analysis. XI., 9.
1898. Interaction of nitric oxide with silver nitrate. XI., 11-14.
1898. Preparation of pure alkali nitrites. XI., 15-18.
1898. The reduction of an alkali nitrite by an alkali metal. XI., 19-32.
1898. Hyponitrites, their properties and their preparation by sodium or potassium. XI., 33-81.
1904. Peroxylaminesulphonic acid. XIX., Art. 16, 1-4.
1904. Constitution of nitric peroxide. XIX., Art. 17, 1-5.

DIVERS, Edward, and HADA, Seihachi.

1899. Ethyl ammonium selenite and non-existence of amidoselenites (selenosamates). XI., 205-212.

DIVERS, Edward, and HAGA, Tamemasa.

1886. On the reduction of nitrites to hydroxylamine by hydrogen sulphide. I., 109-112.
1883. Oxayamidodisulphonates and their conversion into hyponitrites. III., 211-229.
1893. Imidosulphonates. VI., 49-113.
1894. Oximidosulphonates or sulphazotates. VII., 15-86.
1895. Potassium nitrososulphate. IX., 85-95.
1895. Sodium nitrososulphate. IX., 97-100.
1895. The constitution of the nitrososulphates, IX., 101-110.

1897. Imidosulphonates. (2nd paper.) IX., 195-217.
 1897. Amidosulphonic acid. IX., 219-257.
 1897. The reduction of nitrososulphates. IX., 277-290.
 1897. Economic preparation of hydroxylamine sulphate. IX., 291-293.
 1898. Preparation of hyponitrite from nitrite through oxyamidosulphonate.
 XI., 1-8.
 1900. Potassium nitrito-hydroximidosulphates and the non-existence of
 dihydroxylamine derivatives. XIII., 211-224.
 1900. Identification and constitution of Fremy's sulphazotised salts of
 potassium, his sulphazate, sulphazite, etc. XIII., 225-233.
 1900. The interaction between sulphites and nitrites. XIII., 281-310.
 1900. Decomposition of hydroxyamidosulphates by copper sulphate. XIII.,
 497-506.
 1901. Nitrilosulphates. ¹⁷XVIII., Art. 2, 1-9.

DIVERS, Edward, and KAWAKITA, Michitada.

1888. On the composition of bird-lime. II., 17-30.

DIVERS, Edward, and OGAWA, Masataka.

1899. Ethyl ammoniumsulphite. XI., 197-204.
 1900. Ammonium amidosulphite. XIII., 187-199.
 1900. Products of heating ammonium sulphites, thiosulphate, and trithionate.
 XIII., 201-209.
 1901. Ammonium and other imidosulphites. XVII., Art. 1, 1-7.
 1902. Preparation of sulphonamide from ammonium amidosulphite. XVII.,
 Art. 8, 1-6.

DIVERS, Edward, and SHIMIDZU, Tetsukichi.

1886. Mercury sulphites, and the constitution of oxygenous salts. I.,
 101-107.

FUJISAWA, R[ikitaro].

1888. Ueber die Darstellbarkeit willkürlicher Functionen durch Reihen die

nach den Wurzeln einer transcendenten Gleichung fortschreiten.
II., 1-15.

1893. Researches on the multiplication of elliptic functions. VI., 151-226.

FUJITA, T[sunenobu].

1904. On the formation of the germinal layers in Gastropoda. XX., Art. 1,
1-42.

GOTO, Seitaro.

1891. On *Diplozoon nipponicum*, n. sp. IV., 151-192.

1894. Studies on the ectoparasitic trematodes of Japan. VIII., 1-273.

1897. Die Entwicklung der Gonophoren bei *Physalia maxima*. X., 175-191.

1898. The metamorphosis of *Asterias pallida*, with special reference to the
fate of the body cavities, X., 239-278.

1898. Some points in the metamorphosis of *Asterina gibbosa*. XII., 227-242.

1900. Notes on some exotic species of ectoparasitic trematodes. XII., 263-295.

HADA, Seihachi.

1895. Mercury and bismuth hypophosphites. VII., 245-248.

1897. How mercurous and mercuric salts change into each other. IX.,
161-194.

HADA, Seihachi, and DIVERS, Edward.

1899. Ethyl ammonium selenite and non-existence of amidoselenites
(selenosamates). XI., 205-212.

HAGA, Tamemasa.

1887. The effects of dilution and the presence of sodium salts and carbonic
acid upon the titration of hydroxylamine by iodine. I., 369-376.

1904. Peroxylaminesulphonates and hydroxylaminetrisulphonates (sulphazi-
lates and metasulphazilates, Fremy). XIX., Art. 15, 1-43.

1906. Hydroxylamine- α - β -disulphonates (structural isomerides of hydroximino-
sulphates or hydroxylamine- β - β -disulphonates). XXI., Art. 6, 1-17.

1908. A simple method of preparing the imides of the aromatic sulphonic acids. XXV., Art. 13, 1-30.

HAGA, Tamemasa, and DIVERS, Edward.

1887. On the reduction of nitrites to hydroxylamine by hydrogen sulphide. I., 109-112.
1890. Oxyamidodisulphonates and their conversion into hyponitrites. III., 211-229.
1894. Imidodisulphonates. VI., 49-113.
1895. Oximidodisulphonates or sulphazotates. VII., 15-86.
1895. Potassium nitrosodisulphate. IX., 85-95.
1895. Sodium nitrosodisulphate. IX., 97-100.
1895. The constitution of the nitrosodisulphates. XI., 101-110.
1897. Imidodisulphonates. (2nd paper.) IX., 195-217.
1897. Amidodisulphonic acid. IX., 219-257.
1897. The reduction of nitrosodisulphates. IX., 277-290.
1897. Economic preparation of hydroxylamine sulphate. IX., 291-293.
1898. Preparation of hyponitrite from nitrite through oxyamidodisulphonate. XI., 1-8.
1900. Potassium nitrito-hydroximidodisulphates and the non-existence of dihydroxylamine derivatives. XIII., 211-224.
1900. Identification and constitution of Fremy's sulphazotized salts of potassium, his sulphazate, sulphazite, etc. XIII., 225-234.
1900. The interaction between sulphites and nitrites. XIII., 281-310.
1900. Decomposition of hydroxyamidodisulphates by copper sulphate. XIII., 497-506.
1901. Nitrilosulphates. XVII., Art. 2, 1-9.

HAGA, T[amemasa], and MAJIMA, R[iko].

1903. Ueber einige Anhydrobasen aus Diaminen der Fettreihe. XIX., Art. 7, 1-10.

HAGA, Tamemasa, and OSAKA, Yukichi.

1895. The acidimetry of hydrogen fluoride. VII, 255-267.

HATTA, S[aburo].

1892. On the formation of the germinal layers in *Petromyzon*. V., 129-147.
 1897. Contributions to the morphology of Cyclostomata. (I. On the formation of the heart in *Petromyzon*). X., 225-237.
 1900. Contributions to the morphology of Cyclostomata. (II. The development of pronephros and segmental duct in *Petromyzon*). XIII., 311-425.
 1907. On the gastrulation in *Petromyzon*. XXI., Art. 11, 1-44.

HATTORI, H[irotaro].

1901. Studien ueber die Einwirkung des Kupfersulfats auf einige Pflanzen. XV., 371-394.
 1908. Pflanzengeographische Studien über die Bonin-Inseln. XXIII., Art. 10, 1-64.

HAYATA, B[unzo].

1904. Compositæ Formosanæ. XVIII., Art. 8, 1-45.
 1904. Revisio Euphorbiacearum et Buxacearum Japonicarum. XX., Art. 3, 1-92.
 1908. Flora montana Formosæ, an enumeration of the plants found on Mt. Morrison, the central chain, and other mountainous regions of Formosa, at altitudes of 3,000-13,000 ft. XXV., Art. 19, 1-260.

HAYATA, B[unzo], and MATSUMURA, J[inzo].

1906. Enumeratio plantarum in Insula Formosa sponte crescentium hucusque rite cognitarum adjectis descriptionibus et figuris specierum pro regione novarum. XXII., 1-702.

HIKI, Tadasu.

1895. Notes on the topaz from Mino. IX., 69-76.

HIRASÉ, S[akugorô].

1895. Études sur la fécondation et l'embryogénie du *Ginkgo biloba* (I). VIII., 307-322.

1898. Études sur la fécondation et l'embryogénie du *Ginkgo biloba* (Second mémoire). XII., 103-149.

HIRATA, Toshio.

1908. On the viscosity of dilute alcoholic solutions. XXV., Art. 5, 1-15.

HIRATA, K[an], and OMORI, F[usakichi].

1899. Earthquake measurement at Miyako. XI., 161-195.

HIRAYAMA, S[hin].

1890. Determination of the elements of the sun's spin. III., 269-287.

1897. On the prediction of solar eclipses. IX., 141-159.

HIROBE, H[ajime].

1908. On the fusion surfaces of the system naphthalene—chlorobenzene—phenol, and the molecular association of phenol. XXV., Art. 12, 1-50.

HIROTA, S[adamori].

1894. On the sero-amniotic connection and the foetal membranes in the chick. VI., 337-370.

1895. On the dendritic appendage of the urogenital papilla of a siluroid. VIII., 367-380.

HOLLAND, Richard, and NEWTON, Richard Bullen.

1902. On some fossils from the islands of Formosa and Riu-Kiu (=Loo-Choo). XVII., Art. 6, 1-23.

HOMMA (*formerly* KATO), Y[oshijiro].

1902. Studies in atmospheric electricity. XVI., Art. 7, 1-18.

HONDA, K[otaro].

- 1899. On the mutual influence between longitudinal and circular magnetizations in iron and nickel. *XI.*, 283-314.
- 1900. Combined effect of longitudinal and circular magnetizations on the dimensions of iron, steel and nickel tubes. *XIII.*, 77-100.

HONDA, K[otaro], and NAGAOKA, H[antaro].

- 1898. Researches on magnetostriction. *IX.*, 353-391.
- 1900. Change of volume and of length in iron, steel, and nickel ovoids by magnetization. *XIII.*, 57-75.
- 1900. Mutual relations between torsion and magnetization in iron and nickel wires. *XIII.*, 263-280.
- 1902. Experiments on the magnetostriction of steel, nickel, cobalt, and nickel steels. *XVI.*, 1-33.
- 1903. Magnetization and magnetostriction of nickel steels, containing different percentages of nickel. *XIX.*, 1-13.

HONDA, K[otaro], and SHIMIDZU, S[eizo].

- 1902. Change in length of ferromagnetic wires under constant tension by magnetization. *XVI.*, Art. 9, 1-12.
- 1902. Note on the vibration of ferromagnetic wires placed in a varying magnetizing field. *XVI.*, Art. 10, 1-10.
- 1902. The Wiedemann effect in ferromagnetic substances. *XVI.*, Art. 14, 1-17.
- 1903. Change of length of ferromagnetic substances under high and low temperatures by magnetization. *XIX.*, Art. 10, 1-19.
- 1905. On the magnetization and the magnetic change of length in ferromagnetic metals and alloys at temperatures ranging from -186°C to $+1200^{\circ}\text{C}$. *XX.*, Art. 6, 1-63.

HONDA, K[otaro], SHIMIDZU, S[eizo], and KUSAKABE, S[hirota].

- 1902. Change of the modulus of elasticity in ferromagnetic substances by magnetization. *XVI.*, Art. 12, 1-19.

1902. Change of the modulus of rigidity in ferromagnetic substances by magnetization. XVI., Art. 13, 1-14.

HONDA, K[otaro], and TERADA, T[orahiko].

1906. On the change of elastic constants of ferromagnetic substances by magnetization. XXI., Art. 4, 1-70.
1906. On the effect of stress on magnetization and its reciprocal relations to the change of elastic constants by magnetization. XXI., Art. 7, 1-66.

HONDA, K[otaro], TERADA, T[orahiko], YOSHIDA, Y[oshi], and ISHITANI, D[enichiro].

1908. An investigation on the secondary undulations of oceanic tides, carried out by the order of the Earthquake Investigation Committee during 1903-1906. XXIV., i-viii, 1-113.

ICHIMURA, T[sutsumi].

1903. On the formation of anthocyan in the petaloid calyx of the red Japanese Hortense. XVIII., Art. 3, 1-18.

IJIMA, Isao.

1886. Notes on *Distoma endemicum* Baelz. I., 47-59.
1887. Über einige Tricladen Europa's. I., 337-358.
1888. The source of *Bothriocephalus latus* in Japan. II., 49-56.
1892. Notes on a collection of birds from Tsushima. V., 105-128.
1901. Studies on the Hexactinellida (Contribution I). Euplectellida. XV., 1-299.
1902. Studies on the Hexactinellida (Contribution II). (The genera *Corbitella* and *Heterotella*). XVII., Art. 9, 1-34.
1903. Studies on the Hexactinellida (Contribution III). *Placosoma*, a new Euplectellid; Leucopsacidæ and Caulophacidæ. XVIII., Art. 1, 1-124.

1904. Studies on the Hexactinellida (Contribution IV). (Rossellidæ). XVIII., Art. 7, 1-307.

1905. On a new cestode larva parasitic in man (*Plerocercoides prolifer*). XX., Art. 7, 1-21.

IJIMA, I[sao], and IKEDA, S[akujiro].

1895. Description of *Opisthotenthis depressa* n. sp. VIII., 323-337.

IJIMA, I[sao], and KURIMOTO, T[omei].

1894. On a new human tape-worm (*Bothriocephalus* sp.). VI., 371-385.

IJIMA, Isao, and MURATA, Kentaro.

1888. Some new cases of the occurrence of *Bothriocephalus liguloides* Lt. II., 149-162.

IKEDA, I[waji].

1901. Observations on the development, structure and metamorphosis of Actinotrocha. XIII., 507-592.

1904. The Gephyrea of Japan. XX., Art. 4, 1-87.

1907. On three new and remarkable species of echiuroids (*Bonellia miyajimai*, *Thalassema tænioides* and *T. elegans*). XXI., Art. 8, 1-64.

IKEDA, K[ikunaë].

1890. Capillary attraction in relation to chemical composition, on the basis of R. Schiff's data. III., 241-268.

1893. A simple experiment in chemical kinetics. VI., 43-48.

1908. Studies on the chemical theory of solutions. (Part I.) XXV., Art. 10, 1-80.

IKEDA, Sakujiro.

1902. Contributions to the embryology of Amphibia :—The mode of blastopore closure and the position of the embryonic body. XVII., Art. 3, 1-90.

IKEDA, S[akujiro], and IJIMA, I[sao].

1895. Description of *Opisthotenthis depressa* n. sp. VIII., 323-337.

IKENO, S[eichiro].

1898. Untersuchungen über die Entwicklung der Geschlechtsorgane und den Vorgang der Befruchtung bei *Cycas revoluta*. XII., 151-214.

INABA, Masamaro.

1891. Notes on the development of the suprarenal bodies in the mouse. IV., 215-237.

INUI, Tamaki.

1901. Untersuchungen über die niederen Organismen welche sich bei der Zubereitung des alkoholischen Getränkes "Awamori" betheiligen. XV., 465-476.

ISHIKAWA, C[hiyomatsu].

1892. Studies of reproductive elements. V., 1-34.

1894. Studies of reproductive elements. (II. *Noctiluca miliaris* Sur.; its division and spore-formation.) VI., 297-334.

1897. Ueber eine in Misaki vorkommende Art von *Ephelota* und über ihre Sporenbildung. X., 119-137.

1897. Studies of reproductive elements. (III. Die Entwicklung der Pollenkörner von *Allium fistulosum* L., ein Beitrag zur Chromosomenreduktion im Pflanzenreiche.) X., 193-223.

1900. Further observations on the nuclear division of *Noctiluca*. XII., 243-262.

ISHIKAWA, C[hiyomatsu], and MITSUKURI, K[akichi].

1887. On the formation of the germinal layers in *Chelonia*. I., 211-246.

ISHITANI, D[enichiro], HONDA, K[otaro], TERADA, T[orahiko], and YOSHIDA, Y[oshi].

1908. An investigation on the secondary undulations of oceanic tides, carried out by the order of the Earthquake Investigation Committee during 1303-1906. XXIV., i-viii, 1-113.

ITO, Tokutaro, and MATSUMURA, Jinzo.

1900. Tentamen floræ lutchuensis. (Secto prima. Planta Dicotyledoneæ Polypetalæ.) XII., 263-541.

IWASAKI, C[hozo], and YOSHIWARA, S[higeyasu].

1902. Notes on a new fossil mammal. XVI., Art. 6, 1-13.

IZUKA, Akira.

1903. Observations on the Japanese palolo, *Ceratocephale osawai* n. sp. XVII., Art. 11, 1-37.

JACOBI, Arnold.

1898. Japanische beschaltte Pulmonaten. (Anatomische Untersuchung des im Zoologischen Museum der Kaiserlichen Universität in Tokyo enthaltenen Materiales.) I. Pulmonaten. XII., 1-102.

JIMBŌ, K[otora].

1899. Notes on the minerals of Japan. XI., 213-281.

JORDAN, David Starr, and SNYDER, John Otterbein.

1901. Descriptions of nine new species of fishes contained in museums of Japan. XV., 301-311.

KAMETAKA, Tokuhei.

1903. The composition of so-called elæomargaric acid. XIX., Art. 12, 1-6.
1908. On the constitution of the so-called elæomargaric acid. XXV., Art. 3, 1-8.
1808. Notes on Japanese vegetable oils. XXV., Art. 4, 1-7.

KANDA, Masayasu.

1904. Studien über die Reizwirkung einiger Metallsalze auf das Wachstum höherer Pflanzen. XIX., Art. 13, 1-37.

KATAYAMA, M[asao]:

1908. Ueber die Anomalie der starken einwertigen Elektrolyte. XXV., Art. 7, 1-42.

KATO, Yoshijiro.

1897. On the time-lag in the magnetization of iron. IX., 295-319.

KAWAKITA, Michitada, and DIVERS, Edward.

1899. On the composition of bird-lime. II., 17-30.

KAWAMURA, S[eichi].

1907. Ueber die Flecken- und Buntbambuse. XXIII., Art. 2, 1-11.

KAWAMURA, Shinichi.

1908. Coagulation of colloidal aluminium hydroxide by electrolytes. XXV., Art. 3, 1-29.

KIKUCHI, Yasushi.

1888. On anorthite from Miyake-jima. II., 31-47.
 1889. On pyroxenic components in certain volcanic rocks from Bonin Island. III., 67-89.
 1890. On cordierite as contact mineral. III., 313-334.

KIKUCHI, Y[asushi], and SEKIYA, S[eikei].

1890. The eruption of Bandai-san. III., 91-172.

KIMURA, S[hunkichi], and KNOTT, C[argill] G[ilston].

1891. On certain thermoelectric effects of stress in iron. IV., 341-356.

KINOSHITA, K[umao].

1908. Primnoidæ von Japan. XXIII., Art. 12, 1-74.

KISHINOUE, K[amakichi].

1891. On the development of Araneina. IV., 55-88.
 1892. On the development of *Limulus longispina*. V., 53-100.
 1892. On the lateral eyes of spiders. V., 101-103.
 1894. Note on the eyes of *Cardium muticum* Reeve. VI., 279-285.
 1894. Note on the coelomic cavity of the spider. VI., 287-294.
 1902. Some new Scyphomedusæ of Japan. XVII., Art. 7, 1-17.

KITAO, Doro.

1887. Beiträge zur Theorie der Bewegung der Erdatmosphäre und der Wirbelstürme. I., 113-209.
 1889. Beiträge zur Theorie der Bewegung der Erdatmosphäre und der Wirbelstürme. (Zweite Abhandlung.) II., 329-403.
 1895. Beiträge zur Theorie der Bewegung der Erdatmosphäre und der Wirbelstürme. (Dritte Abhandlung.) VII., 293-402.

KNOTT, Cargill G[ilston].

1887. Electrical resistance of nickel at high temperatures. I., 325-328.
 1887. Electrical properties of hydrogenised palladium. I., 328-332.
 1887. Notes on a large crystal sphere. I., 377-379.
 1889. On magnetic lagging and priming in twisted iron and nickel wires. III., 173-188.
 1891. Laboratory notes. IV., 287-300.

KNOTT, C[argill] G[ilston], and KIMURA, S[hunkichi].

1891. On certain thermoelectric effects of stress in iron. IV., 341-356.

KNOTT, Cargill G[ilston], and TANAKADATE, Aikitu.

1888. A magnetic survey of all Japan, carried out by order of the President of the Imperial University. II., 163-262.

KŌGA, Yoshimasa, and YAMAGATA, Osamu.

1890. On the fineness of the one yen silver coin. III., 289-311.

KOTÔ, Bundjiro.

1886. A note on glaucophane. I., 84-99.
 1887. Some occurrence of piedmontite in Japan. I., 303-312.
 1888. On the so-called crystalline schists of Chichibu. II., 77-141.
 1893. The Archæan formation of the Abukuma plateau. V., 197-293.
 1693. On the cause of the great Earthquake in Central Japan, 1891. V., 295-353.
 1899. On the geologic structure of the Malayan archipelago. XI., 83-120.
 1900. Notes on the geology of the dependent isles of Taiwan. XIII., 1-57.
 1903. An orographic sketch of Korea. XIX., Art. 1, 1-61.

KUHARA, Mitsuru.

1888. Specific volume of camphor and of borneol determined with proximate accuracy. II., 321-327.
 1890. On a condensation product of acetone and aldehydammonia. III., 231-240.
 1908. Molecular rearrangement of *N*-benzylbenzaldoxime. XXV., Art. 18, 1-4.

KURIMOTO, T[omei], and IJIMA, I[sao].

1894. On a new human tape-worm (*Bothriocephalus* sp.). VI., 371-385.

KUSAKABE, S[hirota].

1903. Modulus of rigidity of rocks and hysteresis function. XIX., Art. 6, 1-40.
 1905. Modulus of elasticity of rocks and some inferences relating to seismology. XX., Art. 9, 1-18.
 1905. Kinetic measurements of the modulus of elasticity for 158 specimens of rocks, and a note on the relation between the static and the kinetic values of the same. XX., Art. 10, 1-29.

1906. Frequency of after-shocks and space-distribution of seismic waves. XXI., Art. 1, 1-19.

KUSAKABE, S[hirota], HONDA, K[otaro], and SHIMIZU, S[eizo].

1902. Change of the modulus of elasticity in ferromagnetic substances by magnetization. XVI., Art. 12, 1-19.
1902. Change of the modulus of rigidity in ferromagnetic substances by magnetization. XVI., Art. 13, 1-14.

KUSAKABE, S[hirota], and NAGAOKA, H[antaro].

1904. Effect of temperature on the magnetization of steels, nickel and cobalt, measured magnetometrically. XIX., Art. 9, 1-14.

KUSANO, Shunsuke.

1901. Transpiration of evergreen trees in winter. XV., 313-366.
1902. Studies on the parasitism of *Buckleya quadrifida* B. et H., a Santalaceous parasite, and on the structure of its haustorium. XVII., Art. 10, 1-42.

LOEW, Oscar.

1897. The physiological action of amidosulphonic acid. IX., 273-276.

LÖNNBERG, Einar.

1908. Contributions to the ornithology of Saghalin. XXIII., Art. 14, 1-69.

MAJIMA, R[iko], and CHO, S[hunichi].

1908. Ueber den Hauptbestandteil des japanischen Lackes. XXV., Art. 6, 1-17.

MAJIMA, R[iko], and HAGA, T[amemasa].

1903. Ueber einige Anhydrobasen aus Diaminen der Fettreihe. XIX., Art. 7, 1-10.

MATSUBARA, Kōichi.

1908. Formation of γ -oxycarbostyryl from o-nitrobenzoylactic acid. XXV., Art. 17, 1-3.

MATSUDA, Sadahisa.

1893. On the anatomy of Magnoliaceæ. VI., 115-149.

MATSUI, M[otooki].

1908. The complex ferri-malonates. XXV., Art. 2, 1-5.

MATSUMURA, J[inzo].

1902. Revisio alni specierum Japonicarum. XVI., Art. 5, 1-15.

MATSUMURA, J[inzo], and HAYATA, B[unzo].

1906. Enumeratio plantarum in Insula Formosa sponte crescentium hucusque rite cognitarum adjectis descriptionibus et figuris specierum pro regione novarum. XXII., 1-702.

MATSUMURA, Jinzo, and ITO, Tokutaro.

1900. Tentamen floræ Lutchuensis. (Secto prima. Planta Dicotyledonæ Polypetalæ.) XII., 263-541.

MATSUMURA, S[honen].

1908. Neue Cicadinen aus Europa und Mittelmeergebiet. XXIII., Art. 6, 1-46.

MITSUMURI, K[akichi].

1887. The marine biological station of the Imperial University at Misaki. I., 381-384.
1891. On the foetal membranes of Chelonia. (Contributions to the embryology of Reptilia, II.). IV., 1-53.
1892. Further studies on the formation of the germinal layers in Chelonia. (Contributions to the embryology of Reptilia, III.). V., 35-52.

1894. On the process of gastrulation in Chelonia. (Contributions to the embryology of Reptilia, IV.). VI., 227-277.

1896. On the fate of the blastopore, the relations of the primitive streak, and the formation of the posterior end of the embryo in Chelonia, together with remarks on the nature of meroblastic ova in vertebrates. (Contributions to the embryology of Reptilia, V.). X., 1-118.

ITSUKURI, K[akichi], and ISHIKAWA, C[hiyomatsu].

1887. On the formation of the germinal layers in Chelonia. I., 211-246.

MIYAJIMA, M[ikinosuke].

1900. On a specimen of a gigantic hydroid, *Branchiocerianthus imperator* (Allman), found in the Sagami Sea. XIII., 235-262.

MIYOSHI, M[anabu].

1891. Notes on the irritability of the stigma. IV., 205-213.

1897. Ueber das massenhafte Vorkommen von Eisenbakterien in den Thermen von Ikao. X., 139-142.

1897. Studien über die Schwefelrasenbildung und die Schwefelbakterien der Thermen von Yumoto bei Nikko. X., 143-173.

1901. Ueber die Sporocarpenevacuation und darauf erfolgendes Sporenausstreuen bei einer Flechte. XV., 367-370.

1901. Untersuchungen über die Schrumpfkrankeheit ("Ishikubyo") des Maulbeerbaumes. II. Bericht. XV., 459-464.

MIZUNO, T[oshinojo].

1895. Notes on tinfoil grating as a detector for electric waves. IX., 15-25.

1897. The tinfoil grating detector for electric waves. IX., 111-116.

MURAOKA, H[anichi].

1886. Ueber die Deformation der Metallplatten durch Schleifen. I., 69-84.

1897. Das Johanniskäfer-Licht. IX., 129-139.

MURATA, Kentaro, and IJIMA, Isao.

1889. Some new cases of the occurrence of *Bothriocephalus liguloides* Lt.
II., 149-162.

NAGAOKA, H[antaro].

1888. Combined effects of torsion and longitudinal stress on the magnetization of nickel. II., 283-303.
1888. On the magnetization and retentiveness of nickel wire under combined torsional and longitudinal stresses. II., 304-320.
1889. Effect of twist on the magnetization of nickel and iron. III., 189-207.
1890. Transient electric currents produced by twisting magnetized iron, steel, and nickel wires. III., 335-384.
1891. Diffraction phenomena produced by an aperture on a curved surface. IV., 301-322.
1891. Effect of magnetization on the permanent twist of nickel wire. IV., 323-339.
1895. On a certain class of Fraunhofer's diffraction phenomena. IX., 1-6.
1898. Diffraction phenomena in the focal plane of a telescope with circular aperture due to a finite source of light. IX., 321-351.
1895. Lines of equal intensity about the point of intersection of Fraunhofer's diffraction bands. IX., 7-13.
1903. Note on the potential and the lines of force of a circular current. XVI., Art. 15, 1-16.

NAGAOKA, H[antaro], and HONDA, K[otaro].

1898. Researches on magnetostriction. IX., 353-391.
1900. Change of volume and of length in iron, steel, and nickel ovoids by magnetization. XIII., 57-75.
1900. Mutual relations between torsion and magnetization in iron and nickel wires. XIII., 263-280.
1902. Experiments on the magnetostriction of steel, nickel, cobalt, and nickel steels. XVI., Art. 8, 1-33.

1903. Magnetization and magnetostriction of nickel steels, containing different percentages of nickel. XIX., Art. 11, 1-13.

NAGAOKA, H[antaro], and KUSAKABE, S[hirota].

1904. Effect of temperature on the magnetization of steels, nickel and cobalt, measured magnetometrically. XIX., Art. 9, 1-14.

NAGAOKA, H[antaro], SHINJŌ, S[hinzo], and ŌTANI, R[yokichi].

1902. Absolute Messung der Schwerkraft in Kyōto, Kanazawa, Tōkyō und Mizusawa mit Reversionspendeln ausgeführt. XVI., Art. 11, 1-87.

NAGAOKA, H[antaro], and TANAKADATE, A[ikitu].

1893. The disturbance of isomagnetism attending the Mino-Owari earthquake of 1891. V., 149-192.

NAKAI, T[akenoshin].

1908. Polygonaceæ Koreanæ. XXIII., Art. 11, 1-28.

NAKAMURA, S[eiji].

1903. On the diffusion of liquids. XIX., Art. 8, 1-21.

NEWTON, R[ichard] Bullen, and HOLLAND, Richard.

1902. On some fossils from the islands of Formosa and Riu-Kiu (=Loo-Choo). XVII., Art. 6, 1-23.

NISHIWADA, Kyugaku.

1895. On some organic remains from the Tertiary limestone near Sagara, Tōtōmi. VII., 233-243.

OGAWA, Masataka.

1908. Preliminary note on a new element in thorianite. XXV., Art. 15, 1-11.

1908. Preliminary note on a new element allied to molybdenum. XXV.,
Art. 16, 1-13.

OGAWA, Masataka, and DIVERS, Edward.

1899. Ethyl ammoniumsulphite. XI., 197-204.
1900. Ammonium amidosulphite. XIII., 187-199.
1900. Products of heating ammonium sulphites, thiosulphate, and trithionate
XIII., 201-209.
1901. Ammonium and other imidosulphites. XVII., Art. 1, 1-7.
1902. Preparation of sulphamide from ammonium amidosulphites. XVII.,
Art. 8, 1-6.

OKA, Asajiro.

1891. Observations on fresh-water Polyzoa. IV., 89-150.
1895. On some new Japanese land leeches (*Orobdeella* nov. gen.). VIII.,
275-306.
1895. On the so-called excretory organ of fresh-water Polyzoa. VIII., 339-
366.

ŌKUBO, Samuro.

1887. On the plants of Sulphur Island. II., 143-147.

OMORI, F[usakichi].

1894. On the after-shocks of earthquakes. VII., 111-200.
1899. Horizontal pendulums for the mechanical registration of seismic and
other earth movements. XI., 121-145.
1899. Note on the preliminary tremor of earthquake motion. XI.,
147-159.
1899. Notes on the Earthquake Investigation Committee catalogue of
Japanese earthquakes. XI., 339-437.

OMORI, F[usakichi], and HIRATA, K[an].

1899. Earthquake measurement at Miyako. XI., 161-195.

OMORI, F[usakichi], and SEKIYA, S[eikei].

1891. Comparison of earthquake measurements made in a pit and on the surface ground. IV., 249-286.

1895. The diagram of the semi-destructive earthquake of June 20th, 1894, (Tokyo). VII., 289-292.

ONO, K[otaro].

1907. Studies on some extranuptial nectaries. XXIII., Art. 3, 1-28.

ŌNO, N[aoe].

1900. Ueber die Wachstumsbeschleunigung einiger Algen und Pilze durch chemische Reize. XIII., 141-186.

OSAKA, Yukichi.

1908. On the inversion of cane sugar. XXV., Art. 1, 1-8.

OSAKA, Yukichi, and HAGA, Tamemasa.

1895. The acidimetry of hydrogen fluoride. VII., 255-567.

ŌTANI, R[yokichi], NAGAOKA, H[antaro], and SHINJŌ, S[hinzo].

1902. Absolute Messung der Schwerkraft in Kyōto, Kanazawa, Tōkyō und Mizusawa mit Reversionspendeln ausgeführt. XVI., Art. 11, 1-87.

POTDAR, G. N.

1908. On the partition of silver between zinc and lead. XXV., Art. 9, 1-13.

SAITO, K[endo].

1901. Anatomische Studien über wichtige Faserpflanzen Japans mit besonderer Berücksichtigung der Bastzellen. XV., 395-458.

1904. Untersuchungen über die atmosphärischen Pilzkeime. (I. Mittheilung.) XVIII., Art. 5, 1-58.

1904. Ueber das Vorkommen von *Saccharomyces anomalus* beim Sakebrauen. XIX., Art. 18, 1-14.

1904. *Tieghemella japonica* sp. nov. XIX., Art. 19, 1-18.
1908. Untersuchungen über die atmosphärischen Pilzkeime. (II. Mitteilung.)
XXIII., Art. 15, 1-77.

SAKAI, E[itaro].

1895. Formulæ for sn 10 u, en 10 u, dn 10 u in terms of sn u. VII.,
285-288.

SAKURAI, Jōji.

1889. Note on the specific volumes of aromatic compounds. II., 405-412.
1893. Determination of the temperature of steam arising from boiling salt
solutions. VI., 1-19.
1893. Note on an observation by Gerlach of the boiling point of a solution
of Glauber's salt. VI., 21-22.
1893. Modification of Beckmann's boiling method of determining molecular
weights of substances in solution. VI., 23-41.
1893. Constitution of glyccoll and its derivatives. (Appendix: General
theory and nomenclature of amido-acids.) VII., 87-110.
1897. Molecular conductivity of amidosulphonic acid. IX., 259-271.

SASAKI, C[hujiro].

1886. On the life history of *Ugimya sericaria*, Rondani. I., 1-46.
1887. Some notes on the giant salamander of Japan (*Cryptobranchus
japonicus*, Van der Hoeven). I., 269-274.

SEKIYA, Seikei.

1886. Comparison of earthquake diagrams simultaneously obtained at the
same station by two instruments involving the same principle, and
thereby proving the trustworthiness of these instruments. I., 61-68.
1887. The severe Japan earthquake of the 15th of January, 1887. I.,
313-324.
1887. A model showing the motion of an earth-particle during an earth-
quake. I., 359-362.

1888. Earthquake measurements of recent years especially relating to vertical motion. II., 57-75.

1899. The Earthquake Investigation Committee catalogue of Japanese earthquakes. XI., 315-388.

SEKIYA, S[eikei], and KIKUCHI, Y[asushi].

1889. The eruption of Bandai-san. III., 91-172.

SEKIYA, S[eikei], and OMORI, F[usakichi].

1891. Comparison of earthquake measurements made in a pit and on the surface ground. IV., 249-286.

1895. The diagram of the semi-destructive earthquake of June 20th, 1894, (Tokyo). VII., 289-292.

SHIBATA K[eita].

1900. Beiträge zur Wachstumsgeschichte der Bambusgewächse. XIII., 427-496.

SHIGA, Minoru.

1907. On the effect of a partial removal of roots and leaves upon the development of flowers. XXIII., Art. 4, 1-15.

SHIMIDZU, Tetsukichi, and DIVERS, Edward.

1887. Mercury sulphites, and the constitution of oxygenous salts. I., 101-108.

SHIMIZU, S[eizo], and HONDA, K[otaro].

1902. Change in length of ferromagnetic wires under constant tension by magnetization. XVI., Art. 9, 1-12.

1902. Note on the vibration of ferromagnetic wires placed in a varying magnetizing field. XVI., Art. 14, 1-10.

1902. The Wiedemann effect in ferromagnetic substances. XVI., Art. 14, 1-17.

1903. Change of length of ferromagnetic substances under high and low temperatures by magnetization. XIX., Art. 10, 1-19.

1905. On the magnetization and the magnetic change of length in ferromagnetic metals and alloys at temperatures ranging from -186°C to $+1200^{\circ}\text{C}$. XX., Art. 6, 1-63.

SHIMIZU, S[eizo], HONDA, K[otaro], and KUSAKABE, S[hirota].

1902. Change of the modulus of elasticity in ferromagnetic substances by magnetization. XVI., Art. 12, 1-19.

1902. Change of the modulus of rigidity in ferromagnetic substances by magnetization. XVI., Art. 13, 1-14.

SHINJŌ, S[hinzo], NAGAOKA, H[antaro], and ŌTANI, R[yokichi].

1902. Absolute Messung der Schwerkraft in Kyōto, Kanazawa, Tōkyō und Mizusawa mit Reversionspendeln ausgeführt. XVI., Art. 11, 1-87.

SNYDER, John Otterbein, and JORDAN, David Starr.

1901. Descriptions of nine new species of fishes contained in museums of Japan. XV., 301-311.

STEJNEGER, Leonhard.

1898. On a collection of batrachians and reptiles from Formosa and adjacent islands. XII., 215-225.

SUDO, O[nosaburo].

1895. Formulæ for sn 9a. VII., 283-284.

SUZUKI, Tsuneo.

1908. The oximes and imides of benzenedisulphonic acids. XXV., Art. 14, 1-21.

TABATA, S[ukeshiro].

1907. Ueber die Früchte und Keimpflanzen von *Rhus succedanea*, L. XXIII., Art. 1, 1-11.

TAKAGI, T[ei]ji].

1903. Ueber die im Bereiche der rationalen complexen Zahlen Abel'schen Zahlkörper. XIX., Art. 5, 1-42.

TAKIZAWA, K[enshiro].

1892. Optical note. V., 193-196.

TANAKA, N[obujiro].

1891. A new species of Hymenomycetous fungus injurious to the mulberry tree. IV., 193-204.

TANAKA, Shigeho.

1905. On two new species of *Chimæra*. XX., Art. 11, 1-14.
 1908. Notes on some Japanese fishes, with descriptions of fourteen new species. XXIII., Art. 7, 1-54.
 1908. Notes on some rare fishes of Japan, with description of two new genera and six new species. XXIII., Art. 13, 1-24.

TANAKADATE, Aikitu.

1887. A pocket galvanometer. I., 275-302.
 1887. The constants of a lens. I., 333-335.
 1904. A magnetic survey of Japan. XIV., 1-180, 1-134.

TANAKADATE, Aikitu, and KNOTT, Cargill G[ilston].

1891. A magnetic survey of all Japan, carried out by order of the President of the Imperial University. II., 163-262.

TANAKADATE, A[i]kitu, and NAGAOKA, H[antar]o].

1892. The disturbance of isomagnetism attending the Mino-Owari earthquake of 1891. V., 149-192.

TANAKADATE, T[orashiro], and AICHI, K[eiichi].

1906. Theory of the rainbow due to a circular source of light. XXI., Art. 3, 1-29.

TERADA, T[orahiko].

1907. Acoustical investigation of the Japanese bamboo pipe, *syakuhati*. XXI., Art. 10, 1-34.

TERADA, T[orahiko], and HONDA, K[otaro].

1606. On the change of elastic constants of ferromagnetic substances by magnetization. XXI., Art. 4, 1-70.

TERADA, T[orahiko], HONDA, K[otaro], YOSHIDA, Y[oshi], and ISHITANI, D[enichiro].

1908. An investigation on the secondary undulations of oceanic tides, carried out by the order of the Earthquake Investigation Committee during 1903-1906. XXIV., i-viii, 1-113.

TOKUNAGA (*formerly* YOSHIWARA), S[higeyasu].

1903. On the fossil echinoids of Japan. XVII., Art. 12, 1-27.
1906. Fossils from the environs of Tōkyō. XXI., Art. 2, 1-96.

TSUKAMOTO, M[ataki].

1895. On the poisonous action of alcohols upon different organisms. VII., 269-281.

TSURUTA, K[enji].

1895. The thermo-electric effects of longitudinal stress in iron. IX., 27-52.
1895. Thermo-electric effects of longitudinal tension in different metals. IX., 53-67.

WATASE, S[hozaburo].

1887. On the caudal and anal fins of gold-fishes. I., 247-267.

YABE, H[isakatsu].

1903. Cretaceous Cephalopoda from the Hokkaidō. (Part I. *Lytoceras*, *Gaudryceas* and *Tetragonites*.) XVIII., Art. 2, 1-55.
1904. Cretaceous Cephalopoda from the Hokkaidō. (Part II. *Turritiles*, *Helicoceras*, *Heteroceras*, *Nipponites*, *Olcostephanus*, *Desmoceras*, *Hauericeras*, and an undetermined genus.) XX., Art. 2, 1-14.
1905. Mesozoic plants from Korea. XX., Art. 8, 1-59.
1906. A contribution to the genus *Fusulina*, with notes on a fusulina-limestone from Korea. XXI., Art. 5, 1-36.
1908. On the occurrence of the genus *Gigantopteris* in Korea. XXIII., Art. 9, 1-8.

YABE, Y[oshitada].

1902. Revisio Umbelliferarum Japonicarum. XVI., Art. 4, 1-108.

YAMAGATA, Osamu, and KŌGA, Yoshimasa.

1890. On the fineness of the one yen silver coin. III., 289-311.

YAMAGAWA, Kenjirō.

1888. Determination of the thermal conductivity of marble. II., 263-281.

YAMAMOTO, T[oyoji].

1908. The fusion curves of the system naphthalene-phenol. XXV., Art. 11, 1-23.

YAMASAKI, N[aomasa].

1897. On the piedmontite-rhyorite from Shinano. IX., 117-122.

YASUDA, A[tsushi].

1900. Studien über die Ampassungsfähigkeit einiger Infusorien an concentrirte Lösungen. XIII., 101-140.
1903. On the comparative anatomy of the Cucurbitaceæ, wild and cultivated, in Japan. XVIII., Art. 4, 1-56.

YATSU, Naohidé.

1902. On the development of *Lingula anatina*. XVII., Art. 4, 1-112.
 1902. Notes on histology of *Lingula anatina* Brugière. XVII., Art. 5
 1-29.

YENDO, K[ichisaburo].

1902. Corallinae veræ Japonicæ. XVI., Art. 3, 1-36.
 1904. A study of the genicula of Corallinae. XIX., Art. 14, 1-44.
 1905. A revised list of Corallinae. XX., Art. 12, 1-46.
 1907. The Fucaceæ of Japan. XXI., Art. 12, 1-174.

YOKOYAMA, Matajïro.

1889. Jurassic plants from Kaga, Hida, and Echizen. III., 1-66.
 1891. On some fossil plants from the coal-bearing series of Nagato. IV.,
 236-247.
 1891. On some Cretaceous fossils from Shikoku. IV., 357-366.
 1894. Mesozoic plants from Kôzuke, Kii, Awa, and Tosa. VII.,
 201-231.
 1904. On some Jurassic fossils from Rikuzen. XVIII., Art. 6, 1-13.
 1904. Jurassic ammonites from Echizen and Nagato. XIX., Art. 20,
 1-17.
 1905. Mesozoic plants from Nagato and Bitchu. XX., Art. 5, 1-13.
 1906. Mesozoic plants from China. XXI., Art. 9, 1-29.
 1908. Palæozoic plants from China. XXIII., Art. 8, 1-18.

YOSHIDA, Hikorokuro.

1887. On aluminium in the ashes of flowering plants. I., 363-367.

YOSHIDA, Y[oshi], HONDA, K[otaro], TERADA, T[orahiko], and
 ISHITANI, D[enichiro].

1908. An investigation on the secondary undulations of oceanic tides,
 carried out by the order of the Earthquake Investigation Committee
 during 1903-1906. XXIV., i-viii, 1-113.

YOSHIWARA, S[higeyasu].

1901. Notes on the raised coral reefs in the island of the Riukiu curve.

XVI., Art. 1, 1-14.

1901. Geologic structure of the Riukiu (Loochoo) curve, and its relation to the northern part of Formosa. 16., Art. 2, 1-67.

YOSHIWARA, S[higeyasu], and IWASAKI, C[hozo].

1902. Notes on a new fossil mammal. XVI., Art. 6, 1-13.

II.

SUBJECT INDEX

TO

VOLS. I—XXV.

- Abel'sche Körper, Zusammensetzung derselben, XIX., Art. 5, 28–29.
- Absolute Messung der Schwerkraft, in Kyoto, Kanazawa, Tokyo, und Mizusawa mit Reversionspendeln ausgeführt, XVI., Art. 11, 1–87.
- Abukuma plateau, the Archæan formation of the, V., 197–291.
- Acetone and aldehydammonia, condensation product of, III., 231–240.
- Acmaea conulus* Dunker, XXI., Art. 2, 30.
- Actinotrocha, development, structure and metamorphosis of, XIII., 507–592.
- Adiantites heerianus* Yok., III., 28.
- *lanceus* Yok., III., 30.
- *kochibeianus* Yok., III., 29.
- *nakdongensis* Yabe, XX., Art. 8, 45.
- *yuasensis* Yok., VII., 216.
- Aethenyltetramethylendiamin, XIX., Art. 7, 9.
- Aethenyltrimethylendiamin, XIX., Art. 7, 3.
- After-shocks of earthquakes, VII., 111–200; —, distribution of, VII., 138; —, frequency of, XXI., Art. 1, 7; —, periodicity in the frequency of, VII., 126.
- Alcohols, poisonous action of, upon different organisms, VII., 269–281.
- Alcoholic solution, viscosity of dilute, XXV., Art. 5, 1.
- Aldehydammonia and acetone, condensation product of, III., 231–240.
- Algen und Pilze, Wachsthumbschleunigung, durch chemische Reize, VIII., 141–186.
- Allium fistulosum*, Entwickl. der Pollenkörner von, X., 193–223.

Alloys, magnetization and magnetic change of length in, from -186°C to $+1200^{\circ}\text{C}$., XX., Art. 6, 1.

Alni, specierum Japonicarum, revisio, XVI., Art. 5, 1-15.

Aluminium hydroxide, colloidal, coagulation of, XXV., Art. 8, 1.

Aluminium in the ashes of flowering plants, I., 363.

Amido-acids and their derivatives, formation and constitution of, VII., 89.

Amido-group, influence of, upon the strength of organic acids, IX., 268.

Amidoselenites (selenosamates), non-existence of, XI., 208.

Amidosulphates, IX., 235; —, action of heat upon, IX., 244; —, formation of, by sodium amalgam upon hydroxylamine- α - β -disulphonates, XXI., Art. 6, 12; —, formation of, by reduction of nitrosulphates, IX., 283.

Amidosulphates, etc., formed by the decomposition of hydroxyamidosulphates by copper salt, XIII., 497.

Amidosulphite, ammonium, XIII., 187-199.

Amidosulphonic acid, IX., 219-257; —, a strong acid, XI., 266; —, formation of, from acetylacetonedioxime by sulphur dioxide, XXV., Art. 13, 18; —, molecular conductivity of, IX., 259; —, physiological action of, XI., 273-276; —, preparation of, from sodium nitrite, IX., 228.

Ammonites kotoi Yabe, XX., Art. 2, 27.

Amphibia, embryology of, XVII., Art. 3, 1-90.

Amphibole-granite in the Archæan formation of the Abukuma plateau, V., 219, 229, 233.

Amphibole-picrite in the Archæan formation of the Abukuma plateau, V., 271.

Amphibolites of the Gozaisho series, Abukuma plateau, V., 260.

Amphistegina vulgaris (Orbigny), XVII., Art. 6, 16.

Amplitude of seismic waves, and its velocity of propagation, XIX., Art. 6, 34.

Angiopteridium infarctum Feist., XXI., Art. 9, 13, 16.

Anhydrobasen aus Diaminen der Fettreihe, XIX., Art. 7, 1.

Annularia stellata (Schloth.), XXIII., Art. 8, 9, 14.

Anomalie der starken einwertigen Elektrolyte, XXV., Art. 7, 1.

Anomia patelliformis Linné, XXI., Art. 2, 67.

Anorthite from Miyake-jima, II., 31-47.

Anpassungsfähigkeit einiger Infusorien an concentrirte Lösungen, XIII., 101-140.

Anthocyan, formation of, in the petaloid calyx of the red Japanese Hortensia, XVIII., Art. 3, 1-18.

Antholites chinensis Yok., XXI., Art. 9, 19.

Aoterias pallida, metamorphosis of, X., 239-278.

Appendicularia of Japanese waters, XXIII., Art. 5, 1-24.

Arca granosa Linné, XXI., Art. 2, 59.

—— *inflata* Reeve, XXI., Art. 2, 57.

—— *kagoshimensis* Tok., XXI., Art. 2, 59.

—— *rectangularis* Tok., XXI., Art. 2, 61.

—— *tennis* Tok., XXI., Art. 2, 58.

Archæan formation of the Abukuma plateau, V., 197-291.

Archæan geology of the Abukuma plateau, V. 200.

Architectonics of the Sambagawan series, II., 110.

Aromatic compounds, specific volumes of, II., 405.

Ashes of flowering plants, aluminium in the, I., 363.

Asparagin, constitution of, VII., 103.

Asplenium argutulum Heer, III., 32.

—— *distans* Heer, III., 32.

—— *roesserti* (Presl.), IV., 241.

—— *whitbiense* (Brgt.), III., 31.

Astarte japonica Tok., XXI., Art. 2, 54.

Asterina gibbosa, some points in the metamorphosis of, XII., 227-242.

Astriclypeus integer Yosh., XVII., Art. 12, 15.

Atmospheric electricity, XVI., Art. 7, 1-18.

Attendant phenomena of the eruption of Bandai-san, III., 103.

Augite, a green, in certain volcanic rocks from Bonin Island, III., 82.

Awa, Mesozoic plants from, VII., 201-231.

"Awamori," niederen Organismen welche sich bei der Zubereitung des alkoholischen Getränkes, betheiligen, XV., 465-476.

Baiera paucipartita Nath., XX., Art. 5, 9.

—— *gracilis* Bunb., XXI., Art. 9, 30.

- Bambusgewächse, Wachstumsgeschichte der, XIII., 427-496.
- Banda group, the geologic structure of the small, XI., 88.
- Bandai-san, deluge of rock and earth caused by the eruption of, III., 106;
—, eruption of, III., 91-172;—, hurricane which accompanied the
eruption of, III., 114.
- Basalts, special description of individual occurrences of (in Pescadores),
XIII., 33.
- Batrachians and reptiles from Formosa and adjacent islands, on a collection
of, XII., 215-225.
- Beckmann's boiling point method, modification of, VI., 23.
- m*-Benzenedisulphimide, XXV., Art. 14, 6.
- p*-Benzenedisulphimide, XXV., Art. 14, 13.
- m*-Benzenedisulphinates, formation of, by action of ammonia and fuming
nitric acid upon *m*-benzenedisulphoxime, XXV., Art. 14, 16.
- Benzenedisulphonic acids, the oximes and imides of, XXV., Art. 14, 1-21.
- m*-Benzenedisulphoxime, XXV., Art. 14, 2.
- m*-Benzenedisulphoxime, action of ammonia on, XXV., Art. 14, 16.
- p*-Benzenedisulphoxime, XXV., Art. 14, 11.
- N*-Benzylbenzaldoxime, molecular rearrangement of, XXV., Art. 18, 1-4.
- Bewegung der Erdatmosphäre und der Wirbelstürme, Beiträge zur Theorie
der, I., 113-209; II., 329-403; VII., 293-402.
- Bigenerina bradyi* Möller sp., XXI., Art. 5, 34.
- Biotite-amphibole-gneiss in the Archæan formation of the Abukuma plateau,
V., 259.
- Biotite-granite in the Archæan formation of the Abukuma plateau, V., 219,
241.
- Biotite-schist in the Archæan formation of the Abukuma plateau, V., 250-252.
- Bitchu, Mesozoic plants from Nagato and, XX., Art. 5, 10-13.
- Birds from Tsushima, a collection of, V., 105-128;— from Saghalin, a
collection of, XXIII., Art. 14, 1-69.
- Bird-lime, composition of, II., 17-30.
- Bismuth, thermoelectric position of, IV., 294-300.
- Bismuth hypophosphite, VII., 247.

- Blastopore, fate of, in Chelonia, X., 1-118.
- Blastopore closure in Amphibia, XVII., Art. 3, 1-90.
- Body cavities, fate of the, in the metamorphosis of *Asterias pallida*, X., 239-278.
- Boiling point of a solution of Glauber's salt, VII., 21.
- Bonellia miyajimai*, XXI., Art. 8, 1-64.
- Bonin-Inseln, pflanzengeographische Studien über, XXIII., Art. 10, 1-64.
- Bonin Island, on pyroxenic components in certain volcanic rocks from, III., 67-89.
- Borneo, the geologic structure of, XI., 99.
- Borneol, specific volume of, II., 323.
- Borodino group (Riukiu curve), geology of the, XVI., Art. 2, 54.
- Botel-Tobago, the island of, XIII., 46.
- Botlriocephalus latus*, the source of, in Japan, II., 49-56.
- *liguloides*, some new cases of the occurrence of, II., 149-162.
- sp., a new human, VI., 371-385.
- Branchiocerianthus imperator*, on a specimen of, XIII., 235-262.
- Brissopsis luzonica* Gray, XVII., Art. 12, 23.
- p*-Brom-*o*-benzenedisulphoxime, XXV., Art. 14, 15.
- Buccinum undatum* Linné, XXI., Art. 2, 8.
- Buckleya quadriala*, parasitism of, santalaceous parasite, structure of its haustorium, XVII., Art. 10, 1-42.
- Calamites cistii* (Brong.), XXIII., Art. 8, 13.
- Calomel, manufacture of, in Japan, VII., 1-14.
- Camphor, specific volume of, II., 322.
- Cancellaria nodulifera* Sow., XXI., Art. 2, 12.
- *spengleriana* Desh., XXI., Art. 2, 11.
- Cane sugar, inversion of, XXV., Art. 1, 1.
- Capillary attraction and chemical composition, III., 241.
- Carbonic acid, etc., effects of, on titration of hydroxylamine, I., 369.
- Cardita rotunda* Tok., XXI., Art. 2, 55.
- Cardium braunsi* Tok., XXI., Art. 2, 51.
- *californiense* Desh., XXI., Art. 2, 50.

- Cardium muticum* Reeve, XXI., Art. 2, 50.
 ——— *tokyoense* Tok., XXI., Art. 2, 51.
 ——— *muticum*, eyes of, VI., 279-285.
Carpolithes ginkgoides Yok., III., 65.
 ——— *yamadai* Yok., XXI., Art. 9, 14.
 ——— *globularis* Yok., XXI., Art. 9, 20.
 Caulophacidae, XVIII., Art. 1.
 Cause of Japan earthquake of 15th of January, 1887, I., 315.
 Cause of the great earthquake in Central Japan, 1891, V., 322.
 Celebes, the geologic structure of, XI., 106.
Cellepora formosensis Newton and Holland, XVII., Art. 6, 6.
 Central Japan, 1891, on the cause of the great earthquake in, V., 295-353.
Ceratocephale osawai, XVII., Art. 11, 1-37.
Cerithium kochii Phil., XXI., Art. 2, 24.
 ——— *nipponiense* Tok., XXI., Art. 2, 24.
 ——— *tabatense* Tok., XXI., Art. 2, 25.
 Cestode larva parasitic in man (*Plerocercoides prolifer*), XX., Art. 7, 1-21.
 Change in length, of ferromagnetic wires under constant tension by magnetization, XVI., Art. 9, 1-12.
 Change of elastic constants, by magnetization, XXI., Art. 7, 1; — of ferromagnetic substances by magnetization, XXI., Art. 4, 1.
 Change of length, in iron, steel, and nickel ovoids by magnetization, XIII., 57-75; —, magnetic, in ferromagnetic metals and alloys from -186°C to $+1200^{\circ}\text{C}$, XX., Art. 6, 1; — of ferromagnetic substances under high and low temperatures by magnetization, XIX., Art. 10, 1.
 Change of volume, in iron, steel, and nickel ovoids by magnetization, XIII., 57-75.
 Chelonia, formation of the germinal layers in, I., 211-246; V., 35-52; —, foetal membranes of, IV., 1-53; —, gastrulation in, VI., 227-277; blastopore, primitive streak, formation of the posterior end of the embryo, X., 1-118.
 Chemical kinetics, a simple experiment in, VI., 43.
 Chemical theory of solutions, XXV., Art. 10, 1.

- Chichibu, on the so-called crystalline schists of, II., 77-141.
- Chick, sero-amniotic connection and the foetal membranes in the, VI., 337-370.
- Chimæra*, two new species of, XX., Art. 11, 1-14.
- *phantasma* and *C. mitsukurii*, XIX., Art. 3, 1-9.
- Chimæroid, long-snouted, of Japan, XIX., Art. 4, 1-20.
- China, Mesozoic plants from, XXI., Art. 9, 1-39; —, Palæozoic plants from, XXIII., Art. 8, 1-18.
- Chlorite-amphibolite (in the crystalline schists of Chichibu), II., 101.
- Chlorite-schists, spotted, (in the crystalline schists of Chichibu), II., 96.
- Chromosenreduktion in Pflanzenreiche, X., 193-223.
- Cicadinen, neue, aus Europa und Mittelmeergebiet, XXIII., Art. 6, 1-46.
- Circular current, note on the potential and the lines of force, XVI., Art. 15, 1-16.
- Cladophlebis dunkeri* (Schimper), XX., Art. 8, 37.
- *denticulata* (Brong.), XX., Art. 8, 32.
- *koraiensis* Yabe, XX., Art. 8, 32.
- *nathorsti* Yok., VII., 220.
- *nebbensis* (Brong.), XX., Art. 5, 3.
- *yamanoiensis* Yok., XX., Art. 5, 4.
- Clementia papyracea* Gray, XXI., Art. 2, 49.
- Clypeaster testudinarius* (Gray), XVII., Art. 12, 7.
- Coagulation of colloidal aluminium hydroxide, XXV., Art. 8, 1.
- Coagulative power of various electrolytes, XXV., Art. 8, 15.
- Cobalt, electric resistance of, IV., 287-294; —, thermoelectric position of, IV., 294-300.
- Cœloceras subfibulatum* Yok., XIX., Art. 20, 15.
- Cœlomic cavity of the spider, VI., 287-294.
- Columbella martensi* Lischke, XXI., Art. 2, 10.
- *pumilla* Dunker, XXI., Art. 2, 11.
- Compositæ Formosanæ, XVIII., Art. 8, 1-45.
- Condensation product of acetone and aldehydammonia, III., 231-240.
- Coniopteris heerianus* (Yok.), XX., Art. 8, 27.
- *hymenophylloides* (Brong.) XX., Art. 8, 29; XXI., Art. 9, 24, 26.
- *nitidula* Yok., XXI., Art. 9, 35.

- Constitution of glycocoll and its derivatives, VII., 87.
- Copper salts as catalytic agent in decomposition of hydroxyamidosulphates, XIII., 497.
- Coptosoma crenulare* Agassiz, XVII., Art. 12, 4.
- Coral reefs in the islands of the Riukiu curve, notes on the raised, XVI., Art. 1.
- Corallinæ, genicula of, study of, XIX., Art. 14, 1-44.
- Corallinæ Japonicæ, veræ, XVI., Art. 3, 1-36.
- Corallinæ, revised list of, XX., Art. 12, 1-46.
- Corbitella* and *Heterotella*, XVII., Art. 9, 1-34.
- Corbula venusta* Gould, XXI., Art. 2, 39.
- Cordaitea principalis* (Germ.), XXIII., Art. 8, 13-14.
- Cordierite as contact mineral, III., 312-334.
- Cretaceous Cephalopoda from the Hokkaido, XVIII., Art. 2, 1-55; XX., Art. 2, 1-45.
- Cretaceous fossils from Shikoku, IV., 357-366.
- Cryptobranchus japonicus*, some notes on, I., 269-274.
- Cryptodon flexuosus* Mont., XXI., Art. 2, 52.
- Crystal sphere, notes on a large, I., 377-279.
- Crystalline schists of Chichibu, on the so-called, II., 77-141.
- Ctenis kancharai* Yok., XXI., Art. 9, 29.
- Cucurbitaceæ, wild and cultivated in Japan, comparative anatomy of, XVIII., Art. 4, 1-56.
- Cycadeospermum japonicum* Geyl., III., 56.
- Cycas revoluta*, Entwicklung der Geschlechtsorgane und Vorgang der Befruchtung bei, XII., 151-214.
- Cyclina chinensis* Chem., XXI., Art. 2, 48.
- Cyclostomata, contributions to the morphology of, X., 225-237; XIII., 311-425.
- Cyklonen und Anticyklonen, kreisförmige, I., 183.
- Cylichna acuta* Tok., XXI., Art. 2, 32.
- *musashiensis* Tok., XXI., Art. 2, 32.
- *obtusa* Tok., XXI., Art. 2, 33.

- Cyparissidium japonicum* Yok., VII., 229.
- Cyrena lunulata* Yok., XVIII., Art. 6, 10.
- *elliptica* Yok., XVIII., Art. 6, 11.
- Cytherea chinensis* Chem., XXI., Art. 2, 46.
- *meretrix* Linné, XXI., Art. 2, 47.
- Czekanowskia rigida* Heer, III., 61.
- *murrayana* (Lindl.), XXI., Art. 9, 31.
- Dactylioceras helianthoides* Yok., XIX., Art. 20, 16.
- Deformation, über die, der Metallplatten durch Schleifen, I., 69–84.
- Dendritic appendages of the urogenital papilla of a siluroid, VIII., 367–380.
- Dentalium edoense* Tok., XXI., Art. 2, 34.
- *octogonum* Lam., XXI., Art. 2, 33.
- *weinkauffi* Dunker, XXI., Art. 2, 33.
- Desmoceras dawsoni* Whiteaves, XX., Art. 2, 35.
- *poronacicum* Yabe, XX., Art. 2, 39.
- Destructive earthquakes in Japan, annual variation of the frequency of, XI., 403 ; —, geographical distribution of, XI., 413.
- Detector for electric waves, tinfoil grating IX., 15–25 ; 111–116.
- Development of flowers, effect of, partial removal of roots and leaves on, XXIII., Art. 4, 1–15.
- Diacetyltetramethylendiamin, XIX., Art. 7, 8.
- Diagram of the semi-destructive earthquake of June 20th, 1894 (Tokyo), VII., 289–292.
- Diaminen der Fettreihe, über einige Anhydrobasen aus, XIX., Art. 7, 1–10.
- Diaptomus*, reproductive elements of, V., 1–34.
- Dibenzenesulphimidé, XXV., Art. 13, 21.
- Dicksonia acutiloba* Heer, III., 24.
- *glehniana* Heer, III., 25.
- *gracilis* Heer, III., 24.
- *nephrocarpa* (Bunb.), III., 25.
- *tosana* Yok., VII., 213.
- Dicksoniopteris naumanni* Nath., VII., 214.
- Dictyophyllum acutilobum* (Braun), IV., 242.

Dictyophyllum japonicum Yok., IV., 243. XX., Art. 5, 5.

————— *kochibeii* Yok., IV., 244; XX., Art. 5, 6.

————— *nathorsti* Zeiller, XX., Art. 5, 6.

Dictyozamites falcatus (Morris), XX., Art. 8, 11.

————— *grossinervis* Yok., III., 55.

————— *indicus* Feist., III., 53.

Dihydroxylaminesulphonates, non-existence of, XIII., 219.

Differentialgleichung, allgemeine, für die Bewegung der Atmosphäre, I., 134-137.

Diffraction phenomena, in the focal plane of a telescope with circular aperture due to a finite source of light, IX., 321-351; —, produced by an aperture on a curved surface, IV., 301-322.

Diffusion of liquids, XIX., Art. 8, 1.

Dioonites kotoei Yok., III., 44.

————— *brongniarti* (Mant.), XXI., Art. 9, 33.

Diorite-porphyrates in the Archæan formation of the Abukuma plateau, V., 280.

Diorthotoluenesulphimide, XXV., Art. 13, 26.

Diorthotoluenesulphohydroxylamine, XXV., Art. 13, 25.

Diparatoluenesulphimide, XXV., Art. 13, 28.

Diplozoon nipponicum, IV., 151-192.

Dislocations (in the great earthquake in Central Japan, 1891), V., 301.

Distoma endemicum, notes on, I., 47-59.

Division of *Noctiluca miliaris*, VI., 297-334; XII., 243-262.

Doliolina, XXI., Art. 5, 3.

Dolium luteostomum Küster, XXI., Art. 2, 17.

Dosinia exoleta Linné, XXI., Art. 2, 47.

Dyke-rocks, in the Archæan formation of the Abukuma plateau, V., 275-283.

Earthquakes, after-shocks of, VII., 111-200; —, effect of, on buildings, I., 317; —, effect of, on chimneys, I., 321; — in Central Japan, on the cause of the great, V., 295-353; — in Kyoto, XI., 418; — in Tokyo, XI., 435; — of 1891, disturbance of isomagnetism attending the Mino-Owari, V., 149-192.

Earthquake Investigation Committee catalogue of Japanese earthquakes, XI., 315-388;—, notes on, XI., 389-437.

Earthquake diagrams, comparison of, I., 61-68.

Earthquake measurement, at Miyako, XI., 161-195;—, comparison of, at Hongō and Hitotsubashi, II., 71;—, comparison of, in a pit and on the surface ground, IV., 249-286;— especially relating to vertical motion, 57-75.

Earthquake motion, model of, I., 359-362;—, preliminary tremor of, XI., 146-159.

Earthquake sounds, VII., 147.

Eburna japonica Sow., XXI., Art. 2, 9.

Echinarachnius mirabilis (Barn), XVII., Art. 12, 11; XXI., Art. 2, 71.

————— *parma* (Lam.), XVII., Art. 12, 12.

Echinodiscus formosus Yosh., XVII., Art. 12, 14.

Echinolampas yoshiwarai Loriol, XVII., Art. 12, 17.

Echiuroids, three new and remarkable species of, XXI., Art. 8, 1-64.

Echizen, ammonites from, XIX., Art. 20, 1-17;—, Jurassic plants from, III., 1-66.

Ectoparasitic trematodes of Japan, VIII., 1-273;—, exotic species of, XII., 263-295.

Eggs of Japanese myxinoids, XIX., Art. 2, 1-23;— of *Chimæra*, XIX., Art. 3, 1-9.

Eisenbacterien, Vorkommen von, in den Thermen von Ikao, X., 139-142.

Elæomargaric acid, composition of the so-called, XIX., Art. 12, 1-6;—, constitution of the so-called, XXV., Art. 3, 1-8.

Elephas antiquus Falc., XIX., Art. 2, 72.

Electric resistance of cobalt, IV., 287-294.

Electric waves, tinfoil grating as a detector for, IX., 15-25; 111-116.

Electrolytes, coagulative power of various, XXV., Art. 8, 15.

Elliptic functions, multiplication of, VI., 151-226.

Embryology of Amphibia, XVII., Art. 3, 1-90.

Euphorbiacearum et Buxacearum japonicarum, revisio, XX., Art. 3, 1-92.

Ephelota, eine in Misaki vorkommende Art von, X., 119-137.

- Epidote-sericite-gneiss (in the crystalline schists of Chichibu), II., 106.
- Equisetum ushimarensense* Yok., III., 39; XX., Art. 8, 43.
- Erato callosa* Adams, XXI., Art. 2, 10.
- Eruption of Bandai-san, III., 91-172.
- Estheria rectangula* Yok., VII., 230.
- Ethyl ammoniumsulphite, XI., 197-204.
- Eulima levis* Tok., XIX., Art. 2, 21.
- *ovalis* Tok., XXI., Art. 2, 21.
- Euplectellidæ, XV., 1-299; XVIII., Art. 1.
- Evergreen trees, transpiration of, in winter, XV., 313-366.
- Excretory organ of fresh-water Polyzoa, VIII., 339-366.
- Exotic species of ectoparasitic trematodes, notes on some, XII., 263-295.
- Eyes of *Cardium muticum*, VI., 176-285.
- Faserpflanzen Japans, anatomische Studien über wichtige, mit besonderer Berücksichtigung der Bastzellen, XV., 395-458.
- Fault, formed in the great earthquake in Central Japan (1891), V., 324, 330.
- Ferri-malonates, XXV., Art. 2, 1-5.
- Ferromagnetic metals, magnetization and magnetic change of length in, from -186°C to $+1200^{\circ}\text{C}$, XX., Art. 6, 1-63.
- Ferromagnetic substances, change of elastic constants of, by magnetization, XXI., Art. 4, 1-70; —, change of length of, under high and low temperatures by magnetization, XIX., Art. 10, 1; —, change of the modulus of elasticity in, by magnetization, XVI., Art. 12, 1-19; —, change of the modulus of rigidity in, by magnetization, XVI., Art. 13, 1-14; —, Wiedemann effect in, XVI., Art. 14, 1-17.
- Ferromagnetic wires, under constant tension, change of length produced by magnetization in, XVI., Art. 9, 1-12; —, vibration of, placed in a varying magnetizing field, XVI., Art. 10, 1-10.
- Fertilization in *Diaptomus*, V., 1-34.
- Fibularia acuta* Yosh., XVII., Art. 12, 7; XXI., Art. 2, 71.
- Fineness of the one yen silver coin, III., 289.
- Fins, caudal and anal, of gold-fishes, I., 247-267.

- Fishes, nine new species of, contained in museums of Japan, XV., 301-311;
 —, some Japanese, with descriptions of fourteen new species, XXIII.,
 Art. 7, 1-54; —, some rare, of Japan with descriptions of two new
 genera and six new species, XXIII., Art. 13, 1-24.
- Fissurella lischkei* Pilsbry, XXI., Art. 2, 30.
- Flechte, Sporocarpenevacuation und darauf erfolgendes Sporenausstreuen, bei
 einer, XV., 367-370.
- Flecken- und Buntbambuse, XXIII., Art. 2, 1-11.
- Floræ Lutchuensis, tentamen, XII., 263-541.
- Flowering plants, aluminium in the ashes of, I., 363.
- Foetal membranes, in the chick, VI.; 337-370; — of Chelonia, IV., 1-53.
- Formosa, geologic structure of the Riukiu curve and its relation to the
 northern part of, XVI., Art. 2, 57; —, in Insula, sponte crescentium
 hucusque rite cognitarum, enumeratio plantarum, XXII., 1-702; —, on
 some fossils from the island of, XVII., Art. 6, 1-23.
- Fossil echinoids of Japan, XVII., Art. 12, 1-27.
- Fossil mammal, notes on a new, XVI., Art. 6, 1-23.
- Fossil plants from the coal-bearing series of Nagato, IV., 239-247.
- Fossils, from the environs of Tokyo, XXI., Art. 2, 1-96; —, from the
 islands of Formosa and Riukiu (Loochoo), XVII., Art. 6, 1-23.
- Fraunhofer's diffraction phenomena, on a certain class of, IX., 1-6.
- Frequency of after-shocks and space-distribution of seismic waves, XXI., 1,
 1-19.
- Fresh-water Polyzoa, observations on, IV., 89-150; — excretory organ of,
 VIII., 339-366.
- Fucaceæ of Japan, XXI., Art. 12, 1-174.
- Fusion curve of naphthalene, XXV., Art. 11, 6; —, of phenol, XXV., Art.
 11, 9.
- Fusion surface of naphthalene, XXV., Art. 12, 13; —, of phenol, XXV., Art.
 12, 24.
- Fusulina*, XXI., Art. 5, 2; —, a contribution to the genus, XXI., Art. 5,
 1-36.
- Fusulina*-limestone from Korea, notes on a, XXI., Art. 5, 28-36.

Fusus nodoso-plicatus Dunker, XXI., Art. 2, 5.

—— *perplexus* Adams, XXI., Art. 2, 6.

—— *simplex* Smith, XXI., Art. 2, 6.

Gabbros, in the so-called crystalline schists of Chichibu, II., 123.

Galvanometer, a pocket, I., 275-302.

Gari radiata Dunker, XXI., Art. 2, 45.

Garnet-chloritoid-quartz-schist, in the Archæan formation of the Abukuma plateau, V., 270.

Gastropoda, formation of the germinal layers in, XX., Art. 1, 1-42.

Gastrulation in Chelonia, VI., 227-277; — in *Petromyzon*, XXI., Art. 11, 1-44.

Gaudryceras crassicosatum Yabe, XVIII., Art. 2, 29.

—— *denseplicatum* Yabe, XVIII., Art. 2, 30.

—— *kawanoi* Yabe, XVIII., Art. 2, 41.

—— *limatum* Yabe, XVIII., Art. 2, 34.

—— *striatum* Yabe, XVIII., Art. 2, 31.

—— *tenuiliratum* Yabe, XVIII., Art. 2, 19.

—— *yamashitai* Yabe, XVIII., Art. 2, 38.

—— *yokoyamai* Yabe, XVIII., Art. 2, 36.

Geology of the dependent isles of Taiwan, XIII., 1-56.

Gephyrea, of Japan, XX., Art. 4, 1-87.

Germinal layers, formation of, in Chelonia, I., 211-246; V., 35-52; —, formation of the, in Gastropoda, XX., Art. 2, 1-42; —, in formation of the, in *Petromyzon*, V., 129-147.

Gervillia trigona Yok., XVIII., Art. 6, 12.

Giant salamander of Japan, some notes on the, I., 269-274.

Gigantic hydroid, *Branchiocerianthus imperator*, XIII., 235-262.

Gigantopteris in Korea, on the occurrence of, XXIII., Art. 9, 1-8.

Gilolo, the geologic structure of, XI., 110.

Ginkgo biloba, fécondation et l'embryogénie, VIII., 307-322, XII., 103-149.

—— *digitata* (Brgt.), III., 59.

—— *flabellata* Heer, XXI., Art. 9, 27.

Ginkgo lepida Heer, III., 60; XXI., Art. 9, 31, 34.

- Ginkgo sibirica* Heer, III., 60.
- Ginkgodium nathorsti* Yok., III., 57.
- Gio-o island (Pescadores), geology of, XIII., 14.
- Glauber's salt, boiling point of a solution of, VI., 21.
- Glaucophane, a note on, I., 85-99.
- Glossozamites acuminatus* Yok., XXI., Art. 9, 38.
- *hoheneggeri* (Schenk), XXI., Art. 9, 36.
- *parvifolius* Yok., VII., 226.
- Glycocoll, constitution of the metallic derivatives of, VII., 97; — and its derivatives, constitution of, VII., 87.
- Gneiss-mica-schist, in the Archæan formation of the Abukuma plateau, V., 245, 248.
- Gold-fishes, caudal and anal fins of, I., 247-267.
- Gonophoren, Entwicklung der, bei *Physalia maxima*, X., 175-191.
- Gozaisho series, in the Archæan formation of the Abukuma plateau, V., 201, 211, 260.
- Grammoceras okadai* Yok., XIX., Art. 20, 14.
- Granite, amphibole-, in the Archæan formation of the Abukuma plateau, V., 219, 229; —, biotite-, in the Archæan formation of the Abukuma plateau, V., 219, 241.
- Granite-porphry in (Mino), V., 310.
- Graphite-schist, spotted (in the crystalline schists of Chichibu), II., 96.
- Han Land, XIX., Art. 1, 13.
- Han-san Range, XIX., Art. 1, 26.
- Hariotta*, XIX., Art. 4, 1-20.
- Harpoceras ikianum* Yok., XVIII., Art. 6, 5.
- Hauericeras angustum* Yabe, XX., Art. 2, 33.
- *gardeni* Yabe, XX., Art. 2, 32.
- Helicoceras scalare* Yabe, XX., Art. 2, 9.
- *venustum* Yabe, XX., Art. 2, 11.
- Hemifusus ternatanus* Gmel., XXI., Art. 2, 7.
- Heteroceras japonicum* Yabe, XX., Art. 2, 17.
- *oshimai* Yabe, XX., Art. 2, 12.

- Heteroceras orientale* Yabe, XX., Art. 2, 19.
 ——— *otsukai* Yabe, XX., Art. 2, 14.
Heterotella, *Corbitella* and, XVII., Art. 9, 1-34.
 Hexactinellida, studies on the, contrib. I, XV., 1-299; contrib. II, XVII., Art. 9, 1-34; contrib. III, XVIII., Art. 1, 1-124; contrib. IV, XVIII., Art. 7, 1-307.
 Hida, Jurassic plants from, III., 1-66.
Hildoceras chrysanthemum Yok., XIX., Art. 20, 11.
Hildoceras densicostatum Yok., XIX., Art. 20, 12.
 ——— *inouyei* Yok., XIX., Art. 20, 13.
Homea okinoseana, XIX., Art. 2, 1-23.
 Horizontal pendulums for the mechanical registration of seismic and other earth movements, XI., 121-145.
 Hokkaido, Cretaceous Cephalopoda from the, XVIII., Art. 2; XX., Art. 2.
 Hoko group (Pescadores), geology of the, XIII., 1.
 Hornblende-porphyry (Mino), V., 312.
 Hydrogen fluoride, acidimetry of, VII., 255-267.
 Hydroxyamidosulphate (oxyamidosulphonate), decomposition of, by copper sulphate, XIII., 497-506.
 Hydroxylamine, acid sulphate of, VII., 249-250; —, formation of, from nitrites by hydrogen sulphide, I., 109; — sulphate, economic preparation of, IX., 291-293; —, the effects of dilution and the presence of sodium salts and carbonic acid upon the titration of, by iodine, I., 369-376.
 Hydroxylamine-disulphonates, see oximidosulphonates, also hydroximidosulphates.
 Hydroxylamine-monosulphonates or oxyamidosulphonates, III., 211.
 Hydroxylamine-trisulphonate, XIX., Art. 15, 4.
 Hydroxylamine- α - β -disulphonates (structural isomeride of hydroximiniosulphates or hydroxylamine- β - β -disulphates), XXI., Art. 6, 1-17.
 Hymenomycetous fungus, a new species of, injurious to the mulberry tree, IV., 193-204.
 Hyponitrite, preparation of, from nitrite through oxyamidosulphonate, IX., 1-8; —, formation of, by reduction of nitrososulphate, IX., 281; —, constitution of, III., 228.

Hyponitrites, conversion of oxyamidosulphonates into, III., 218;—, their properties and their preparation by sodium or potassium, XI., 33-81; —, effect of heat upon, XI., 54.

Hypnitrous acid, XI., 61.

Hypophosphites, mercury and bismuth, VII., 245-248.

Hypsopatus japonicus Lorient, XVII., Art. 12, 23.

Hysteresis function, XIX., Art. 6, 1.

Ideal solution, general nature of, XXV., Art. 10, 5.

Ilarionia yoshiwarai Lorient, XVII., Art. 13, 16.

Ilicic alcohol, in bird-lime, II., 26.

Imides of aromatic sulphonic acids, a simple method of preparing, XXV., Art. 13, 1-30.

Imidosulphites, ammonium and other, XVII., Art. 1, 1-7.

Imidosulphonates, VI., 49-113; IX., 195-217;—, compounds of, with nitrates VI., 76.

Infusorien, Anpassungsfähigkeit einiger, an concentrierte Lösungen, XIII., 101-140.

Inō Tadayoshi, life of, the Japanese surveyor and cartographer, II., 228-232.

Inversion of cane sugar, XXV., Art. 1, 1.

Iodine, molecular weight of, in solution, VI., 40.

Iron and nickel, on the mutual influence between longitudinal and circular magnetizations in, XI., 283-314.

Iron and nickel wires, magnetic lagging and priming in twisted, III., 173-188;—, mutual relations between torsion and magnetization in, XIII., 263-280.

Iron, steel, and nickel ovoids, change of volume and of length in, by magnetization, XIII., 57-75.

Iron, steel, and nickel tubes, combined effect of longitudinal and circular magnetizations on the dimensions of, XIII., 77-100.

Iron, thermoelectric effects of longitudinal stress in, IX., 27-52;—, thermoelectric effects of stress in, IV., 341-356;—, time lag in the magnetization of, IX., 295-319.

"Ishikubyo," Schrumpfkrankeheit des Maulbeerbaumes, XV., 459-464.

- Isodynamen, Windbahn und Wirbelaxe, allgemeine Beziehungen zwischen, I., 137.
- Isomagnetism, disturbance of, attending the Mino-Owari earthquake of 1891, V., 149-192.
- Isoxazol, dimethyl (3.5), formation of, from acetylacetonedioxime by sulphur dioxide, XXV., Art. 13, 18.
- Japan earthquake of 15th of January, 1887, I., 313-323.
- Japanese bamboo pipe, *syakuhati*, acoustical investigation of, XXI., Art. 10, 1-34.
- Java, the geologic structure of, II., 87.
- Johanniskäfer-Licht, IX., 129-139.
- Jurassic ammonites from Echizen and Nagato, XIX., Art. 20, 1-17.
- Jurassic fossils from Rikuzen, XVIII., Art. 6, 1-13.
- Jurassic plants from Kaga, Hida and Echizen, III., 1-66.
- Kaga, Jurassic plants from, III., 1-66.
- Kagoshima earthquake, after-shocks of, VII., 126.
- Kai-ma Land, XIX., Art. 1, 31.
- Kâsho (Samasana), isle of, XIII., 55.
- Kii, Mesozoic plants from, VII., 201-231.
- Knorria Selloni*, XXIII., Art. 8, 16.
- Korea, an orographic sketch of, XIX., Art. 1, 1-61; —, journeys through, (contribution I), XXVI., Art. 2, 1-207; (contribution II), XXVII., Art. 12, 1-32; —, Mesozoic plants from, XX., Art. 8, 1-59; —, on the occurrence of *Gigantopteris* in, XXIII., Art. 9, 1-8; —, notes on a fusulina-limestone from, XXI., Art. 5, 28-36.
- Korean system, XIX., Art. 1, 17, 40.
- Kôtô (Botel-Tobaga), the islands of, XIII., 46.
- Kozuke, Mesozoic plants from, VII., 201-231.
- Kumamoto earthquake, after-shocks of, VII., 121.
- Kupfersulfats, Einwirkung des, auf einige Pflanzen, XV., 371-394.
- Lacks, über den Hauptbestandteil des japanischen, XXV., Art. 6, 1-17.
- Laganum decagonalis* (Less.) XVII., Art. 12, 8; XXI., Art. 2, 70.
- *fudsiyama* Död., XVII., Art. 12, 11.

Lamprophyres, augite-dioritic, in the Archæan formation of the Abukuma plateau, V., 278.

Land leeches, some new Japanese, VIII., 275-306.

Lascea striata Tok., XXI., Art. 2, 53.

—— *suborbicularis* Mont., XXI., Art. 2, 54.

Laurentian, in the Archæan formation of the Abukuma plateau, V., 201, 218.

Leda confusa Hanley, XXI., Art. 2, 56.

Leeches, some new Japanese land, VIII., 275-306.

Lemniskatenkörper, XIX., Art. 5, 26.

Lens, the constants of a, I., 333-336.

Lepidodendron oculis-felis (Abbado.), XXIII., Art. 8, 11.

Leucopsacidæ, XVIII., Art. 1.

Liau-tung Range, XIX., Art. 1, 33.

Lima hakodatensis Tok., XXI., Art. 2, 64.

—— *japonica* Adams, XXI., Art. 2, 64.

Limopsis woodwardi Adams, XXI., Art. 2, 64.

Limulus longispina, development of, V., 53-100.

Lines of equal intensity, about the point of intersection of Fraunhofer's diffraction bands, IX., 7-13.

Lines of force of a circular current, XVI., Art. 15, 1-16.

Lingula anatina, development of, XVII., Art. 4, 1-112; —, histology of, XVII., Art. 5, 1-29.

—— *hians* Swains., XXI., 2, 69.

Linthia nipponica Yosh., XVII., Art. 12, 18.

Liquids, diffusion of, XIX., Art. 8, 1.

Lithothamnium ramosissimum Reuss, VII., 326; XVII., Art. 6, 17.

Longitudinal and circular magnetizations, in iron and nickel, XI., 283-314; —, combined effect of, on the dimensions of iron, steel, and nickel tubes, XIII., 77-100.

Longitudinal stress, combined effects of torsion and, on the magnetization of nickel, II., 283-303; —, in iron, thermoelectric effects of, IX., 27-52.

Longitudinal tension, thermoelectric effects of, in different metals, IX., 53-67.

Loochoo Curve, geologic structure of the, XVI., Art. 2.

Lucina borealis Linné, XXI., Art. 2, 52.

Lutraria ovalis Tok., XXI., Art. 2, 41.

Lytoceras lineatum Schloth., XVIII., Art. 6, 6.

——— *ezoense* Yabe, XVIII., Art. 2, 9.

——— *imperiale* Yabe, XVIII., Art. 2, 11.

Macha divaricata Lischke, XXI., Art. 2, 36.

Macona nasuta Conrad, XXI., Art. 2, 45.

Macrotaeniopteris richthofeni Schenk, III., 37.

Macrotaeniopteris marginata Nath., VII., 221.

Mactra crossei Dunker, XXI., Art. 2, 41.

——— *sachalinensis* Desh., XXI., Art. 2, 39.

——— *sulcataria* Desh., XXI., Art. 2, 40.

——— *veneriformis* Desh., XXI., Art. 2, 40.

Magnetic lagging and priming in twisted iron and nickel wires, III., 173-188.

Magnetic survey, of all Japan, II., 163-262; —, of Japan, XIV., 1-180.

Magnetization, change in length of ferromagnetic wire under constant tension by, XVI., Art. 9, 1-12; —, change of elastic constants by, XXI., Art. 4, 1-70; XXI., Art. 7, 1; —, change of length of ferromagnetic substances under high and low temperatures by, XIX., Art. 10, 1; —, change of the modulus of elasticity in ferromagnetic substances by, XVI., Art. 12, 1-19; —, change of the modulus of rigidity in ferromagnetic substances by, XVI., Art. 13, 1-14; —, effect of, on the permanent twist of nickel wire, IV., 323-339; —, effect of stress on, XXI., Art. 7, 1; — in ferromagnetic metals and alloys from -186°C to $+1200^{\circ}\text{C}$, XX., Art. 6, 1; —, of iron, time lag in, IX., 295-319; —, of nickel and iron, effect of twist on, III., 189-207; —, of nickel, combined effects of torsion and longitudinal stress on, II., 283-303; — and retentiveness of nickel wire under and combined torsional and longitudinal stresses, II., 304-320.

Magnetometer, a new electromagnetic, II., 178.

Magnetostriction, of nickel steels, containing different percentages of nickel, XIX., Art. 11, 1-13; —, experiments on, of steel, nickel, cobalt, and nickel steels, XVI., Art. 8, 1-33; —, researches on, IX., 353-391.

- Magnoliaceæ, anatomy of, VI., 115-149.
- Malayan archipelago, on the geologic structure of the, XI., 83-120.
- Malonic acid, complex ferri-, salts of, XXV., Art. 2, 1-5.
- Mammal, notes on a new fossil, XVI., Art. 6, 1-13.
- Marble, determination of the thermal conductivity of, II., 263-281.
- Marginal vibration, I., 322.
- Marine station at Misaki, I., 381-384.
- Martensia striata* Linné, XXI., Art. 2, 35.
- Mehrfache Wirbelbildungen in der Erdatmosphäre, II., 346.
- Mercurous nitrate hypophosphite, VII., 245;— sulphide, non-existence of, IX., 192-194;— and mercuric salts, change of, into each other, IX., 161-194.
- Mercury perchlorates, IX., 77-84;— sulphites and the constitution of oxygeneous salts, I., 101-107.
- Meroblastic ova in vertebrates, remarks on the nature of, X., 1-118.
- Mesozoic plants from China, XXI., Art. 9, 1-39;—, from Kozuke, Kii, Awa and Tosa, VII., 201-231;—, from Nagato and Bitchu, XX., Art. 5, 1-13;—, from Korea, XX., Art. 8, 1-59.
- Metals, thermoelectric effects of longitudinal tension in different, IX., 53-67.
- Metallsalze, Reizwirkung einiger, auf das Wachsthum höherer Pflanzen, XIX., Art. 13, 1-37.
- Metamorphosis of *Actinotrocha*, XIII., 507-592;— of *Asterias pallida*, X., 239-278;— of *Asterina gibbosa*, XII., 227-242.
- Metasulphazates, XIII., 230.
- Metasulphazilate, XIX., Art. 15, 4.
- Metasulphazotates, XIII., 232.
- Mica-schist, in the Archæan formation of the Abukuma plateau, V., 268.
- Minerals of Japan, notes on the, XI., 213-281.
- Mino and Owari, geology and topography of, V., 305.
- Mino-Owari earthquake, after-shocks of, VII., 118.
- Misaki, marine station at, I., 381-384.
- Mochylic alcohol, in bird-lime, II., 26.
- Model showing the motion of an earth-particle during an earthquake, I.,

359-362.

Modiola japonica Dunker, XXI., Art. 2, 63.

——— *modiolus* Linné, XXI., Art. 2, 63.

Modulus of elasticity, change of, in ferromagnetic substances by magnetization, XVI., Art. 12, 1-19; —, kinetic measurements of, of 158 specimens of rocks, XX., Art. 10, 1; — of rocks and some inferences relating to seismology, XX., Art. 9, 1; —, static and kinetic values of, XX., Art. 10, 20.

Modulus of rigidity, change of, in ferromagnetic substances by magnetization, XVI., Art. 13, 1-14; — of rocks and hysteresis function, XIX., Art. 6 1-40.

Molecular conductivity of amidosulphonic acid, IX., 259.

Molecular rearrangement of *N*-benzylbenzaloxime, XXV., Art. 18, 1-4.

Molecular weights of substances in solution, modification of Beckmann's method of determining, VI., 23.

Molybdenite, examination of, XXV., Art. 15, 7.

Morrison, Mt., central chain, and other mountainous regions of Formosa at altitudes of 3,000-13,000 ft., enumeration of plants, XXV., Art. 19, 1-260.

Murex falcatus Sow., XXI., Art. 2, 4.

——— *longicanalis* Tok., XXI., Art. 2, 4.

Myodora fluctuosa Gould, XXI., Art. 2, 39.

Mysia pacifica Tok., XXI., Art. 2, 53.

——— *semiaspera* Phil., XXI., Art. 2, 53.

Myxinoids, Japanese, XIX., Art. 2, 1-23.

Nagato, Mesozoic plants from, XX., Art. 5, 1-10; —, fossil plants from the coal-bearing series of, IV., 239-247; —, Jurassic ammonites from, XIX., Art. 20, 1-17.

Naphthalene, fusion curve of, XXV., Art. 11, 6; —, fusion surface of, XXV., Art. 12, 13.

Nassa livescens Phillippi, XXI., Art. 2, 9.

——— *japonica* Adams, XXI., Art. 2, 9.

Natica ampla Reeve, XXI., Art. 2, 18.

——— *clausa* Desh., XXI., Art. 2, 17.

Natica papyracea Bush., XXI., Art. 2, 19.

Næra gouldiana Hinds, XXI., Art. 2, 39.

Nectaries, extranuptical, studies on some, XXIII., Art. 3, 1-28.

Neoschwagerina, XXI., Art. 5, 3.

Neptunea despecta Linné, XXI., Art. 2, 7.

Neuropteris flexuosa Sternb., XXIII., Art. 8, 9.

———— *scheuchzeri* Hoffm., XXIII., Art. 8, 10.

New element, allied to molybdenum, XXV., Art. 16, 1;—, in thorianite, XXV., Art. 15, 1.

Newton's ring modified by a mica film, V., 193-196.

Nichtstationäre Wirbelbildungen in der Erdatmosphäre, VII., 360.

Nickel, combined effects of torsion and longitudinal stress on the magnetization of, II., 283-303;—, electrical resistance of, at high temperatures, I., 325-328;— wire, on the magnetization and retentiveness of, under combined torsional and longitudinal stresses, II., 304-320.

Nickel steels, magnetization and magnetostriction of, containing different percentages of nickel, XIX., Art. 11, 1-13.

Nicobar group, the geologic structure of, XI., 84.

Nilssonina inouyei Yok., XX., Art. 5, 9.

———— *johnstrupi* Heer, VII., 226.

———— *nipponensis* Yok., III., 42.

———— *orientalis* Heer, III., 41; XX., Art. 8, 13.

———— *ozoana* Yok., III., 41.

———— *pterophylloides*, VII., 228.

———— *schaumburgensis* Dunker, VII., 227.

Nipponium, Np, a new element in thorianite, XXV., Art. 15, 1.

Nipponites mirabilis Yabe, XX., 2, 20.

Nitric oxide, absorption of, in gas analysis, IX., 9;—, Ewart Johnstone's way to prepare, VII., 253-254;—, interaction of, with silver nitrate, IX., 11-13.

Nitric peroxide, constitution of, XIX., Art. 17, 1-5.

Nitrilosulphonates, XVII., Art. 2, 1-9.

Nitrite, compounds of, with hydroximidosulphates, XIII., 211.

- Nitrites, reduction of, to hydroxylamine by hydrogen sulphide, I., 109-112;
 — (alkali), reduction of, by an alkali metal, XI., 19-32; —, interaction
 with sulphites, XIII., 281; —, preparation of pure, XI., 15-18.
 Nitri-to-hydroximidosulphates potassium, and the non-existence of dihydroxyl-
 amine derivatives, XIII., 211-224.
o-Nitrobenzoyl-acetic acid, formation of γ -oxycarbostyryl from, XXV., Art. 17, 1-3.
 Nitrosodisulphonic acid, XIX., Art. 16, 2.
 Nitrososulphate, potassium, IX., 85-95; —, sodium, IX., 97-100.
 "Nitrosulphate", Pelouze's, see nitrososulphates; —, non-existence of is-
 omerides of, XIII., 222.
 Nitrososulphates, constitution of, IX., 101-110; —, reduction of, IX., 277-290.
 Nitroxidisulphonate, XIX., Art. 15, 10.
 Nitroxysulphites (stickoxidschweflige Säure), see nitrososulphates.
Noctiluca, nuclear division in, XII., 243-262.
 ——— *miliaris*, its division and spore-formation, VI., 297-334.
Nucula insignis Gould, XXI., Art. 2, 56.
 ——— *mirabilis* Hinds, XXI., Art. 2, 56.
 Oceanic tides, secondary undulations of, XXIV., 1-110.
Odostomia fasciata Dunker, XXI., Art. 2, 22.
 ——— *planata* Gould, XXI., Art. 2, 22.
 ——— *sulplanata* Gould, XXI., Art. 2, 23.
 ——— *takinogavensis* Tok., XXI., Art. 2, 23.
 Oils, Japanese wood-, camellia- or of *Thea japonica*, of *Torreya nucifera*,
 soya bean- or of *Glycine hispida* Maxim., of *Perilla ocymoides*, notes on,
 XXV., Art. 4, 1-7.
 Okinawa group, raised coral reefs in the, XVI., Art. 1, 6; — (Riukiu curve)
 geology of the, XVI., Art. 2, 26.
Olivella cnsobrina Lischke, XXI., Art. 2, 10.
Olcostephanus unicus Yabe, XX., Art. 2, 28.
Onychiopsis elegans Yok., VII., 215.
 ——— *elongata* (Geyl.) III., 27; VII., 215; XX., Art. 8, 22.
Operculina complanata (Defr.), XVII., Art. 6, 14.
Opisthoteuthis depressa, description of, VIII., 323-337.

- Oppelia echizenica* Yok., XIX., Art. 20, 8.
 Optical note, V., 193-196.
Orbitoides angularis Newton and Holland, XVII., Art. 6, 10.
 ——— *sumatrensis* Newton and Holland, XVII., Art. 6, 11.
 ——— *verbeeki* Newton and Holland, XVII., Art. 6, 12.
 Organic remains from the Tertiary limestone near Sagara, Totomi, VII., 233-343.
 Orographic sketch of Korea, XIX., Art. 1.
 Oshima group, raised coral reefs in the, XVI., Art. 1, 8; — (Riukiu curve), geology of the, XVI., Art. 2, 11.
 Osumi group (Riukiu curve), geology of the, XVI., Art. 2, 25.
Ostrea denselamellosa Lischke, XXI., Art. 2, 68.
 ——— *gigas* Thunb., XXI., Art. 2, 68.
 ——— *irregularis* Tok., XXI., Art. 2, 68.
 Ornis of Saghalin, contributions to the, XXIII., Art. 14, 1-69.
 Ovogenesis in *Diaptomus*, V., 1-34.
 Oxidation of phosphorus, velocity of, VI., 43-48.
 Oximidosulphonates, VII., 15-86; — and their conversion into hyponitrites, III., 211-229; XI., 1-8; —, compounds of, with nitrites, XIII., 211; — with nitrates and chlorides, VII., 56-57; —, oxidation of, by basic reagents, III., 225.
 Oxymidosulphonates (hydroxylamine-monosulphonates), III., 211; see also hydroxyamidodulphonates.
 γ -Oxycarbostyryl, formation of, from *o*-nitrobenzoylacetic acid, XXV., Art. 17, 1-3.
 Oxysulphazotate, XIX., Art. 15, 10.
 Palæozoic plants from China, XXIII., Art. 8, 1-18.
 Paleo-chyo-syön Land, XIX., Art. 1, 44.
 Palladium, electrical properties of hydrogenised, I., 328-332.
 Palmitic acid, in bird-lime, II., 29.
 Palolo, Japanese, XVII., Art. 11, 1-37.
Palyssia manchurica Yok., XXI., Art. 9, 32.
Panopaea generosa Gould, XXI., Art. 2, 38.

Paramyxine, XIX., Art. 2, 1-23.

"Parasulphatammon," VI., 58.

Partition coefficient of phenol, XXV., Art. 12, 14.

Partition of silver between zinc and lead, XXV., Art. 9.

Patella amussitata Reeve, XXI., Art. 2, 31.

Pecopteris arborescens (Schloth.), XXIII., Art. 8, 14.

———— *browniana* Dunker, VII., 218.

———— *cyathea* (Schloth.), XXIII., Art. 8, 11.

———— *exilis* Phil., III., 35.

———— *geyleriana* Nath., VII., 219.

———— *siportana* Heer, III., 36.

———— *virginiensis* Font., VII., 220.

Pecten irradians Lam., XXI., Art. 2, 67.

———— *laetus* Gould, XXI., Art. 2, 65.

———— *laqueatus* Sow., XXI., Art. 2, 64.

———— *pulchellimus* Tok., XXI., Art. 2, 67.

———— *tokyoensis* Tok., XXI., Art. 2, 65.

Pectunculus albo-lineatus Lischke, XXI., Art. 2, 11.

Pegmatophyritic dykes, in the Archæan formation of the Abukuma plateau,
V., 275.

Perchlorates of mercury, IX., 77-84.

Perisphinctes matsushimai Yok., XIX., Art. 20, 3.

———— *hikii* Yok., XIX., Art. 20, 5.

———— *kaizaranus* Yok., XIX., Art. 20, 6.

———— *kochibei* Yok., XIX., Art. 20, 7.

Permanent twist, effect of magnetization on, of nickel wire, IV., 323-339.

Perna rikuzenica Yok., XVIII., Art. 6, 13.

Peroxyaminesulphonates and hydroxylaminetrisulphonates, XIX., Art. 15, 1-43.

Peroxyaminesulphonic acid, XIX., Art. 16, 1-4.

Pescadores (Hôko group), geology of, XIII., 1.

Petrography of the effusives (in Pescadores), XIII., 17.

Petromyzon, formation of germinal layers in V., 129-147;—, formation of
heart in, I., 225-237;—, development of pronephros and segmental

- duct, XIII., 311-425; —, on the gastrulation in, XXI., Art. 11, 1-44.
- Phenol, fusion curve of XXV., Art. 11, 9; —, fusion surface of, XXV., Art. 12, 24; —, molecular association of, XXV., Art. 11, 4; —, partition coefficient of, XXV., Art. 12, 41.
- Philippine islands, the geologic structure of the, XI., 112.
- Phœnicopsis lator* Heer, XXI., Art. 9, 21.
- *yamadai* Yok., XXI., Art. 9, 17.
- Phosphorus, velocity of oxidation of, VI., 43-48.
- Phylogenetic view of a new fossil mammal, XVI., Art. 6, 10.
- Physalia maxima*, Entwicklung der Gonophoren bei, X., 175-191.
- Piedmontite, some occurrences of, in Japan, I., 303-312.
- Piedmontite-rhyolite from Shinano, IX., 117-122.
- Piedmontite-schist (in the crystalline schists of Chichibu), II., 94.
- Pilzkeime, atmosphärischen, Untersuchungen über, XVIII., Art. 5, 1-58; — XXIII., Art. 15, 1-77.
- Pinnacle group (Riukiu curve), geology of the, XVI., Art. 2, 55.
- Pinus prodromus* Heer, III., 62.
- *nordenskjoldi* Heer, III., 63.
- Plerocercoides prolifer*, a new Cestode larva parasitic in man, XX., Art. 7, 1-21.
- Pleurotoma gracilentia* Reeve, XXI., Art. 2, 15.
- *ojiensis* Tok., XXI., Art. 2, 15.
- *oxytropis* Sow., XXI., Art. 2, 13.
- *parva* Tok., XXI., Art. 2, 16.
- *principalis* Pilsbry, XXI., Art. 2, 14.
- *raricostata* Smith, XXI., Art. 2, 14.
- *reciproca* Gould, XXI., Art. 2, 14.
- *sagamiensis* Tok., XXI., Art. 2, 16.
- *subauriformis* Smith, XXI., Art. 2, 14.
- *tabatensis* Tok., XXI., Art. 2, 15.
- *veretebrata* Smith, XXI., Art. 2, 13.
- Podozamites lanceolatus* (Lindl.), III., 45-49; IV., 245; VII., 222; XX., Art. 5, 8, 13; XX., Art. 8, 17; XXI., Art. 9, 18, 21-22, 26, 33, 37.
- *reinii* Geyl., III., 50; XX., Art. 8, 16.

- Podozamites tenuistriatus* Geyl., III., 49.
- Pollenkörner von *Allium fistulosum*, Entwicklung der, X., 193-223.
- Polygonaceæ Koreanæ, XXIII., Art. 11, 1-28.
- Polyzoa, fresh-water, observations on, IV., 89-150 ;—, excretory organ of fresh-water, VIII., 339-366.
- Potamides fluviatilis* Potiez, XXI., Art. 2, 25.
- *incisus* Homb., XXI., Art. 2, 26.
- *zonalis* Brug., XXI., Art. 2, 25.
- Potential of a circular current, XVI., Art. 15, 1-16.
- Preliminary tremor of earthquake motion, XI., 147-159.
- Prenaster boninensis* Lorient, XVII., Art. 12, 23.
- Primideale des Lemniskatenkörpers, XIX., Art. 5, 22-25.
- Primitive streak, relation of the, in *Chelonia*, X., 1-118.
- Primnoidæ von Japan, XXIII., Art. 12, 1-74.
- Ptilophyllum cutchense* Morris, VII., 229.
- Pulmonaten, japanische beschalte, XII., 1-102.
- Pulsatory oscillations of the ground, XI., 130.
- Pulvinulina repanda* (Fichtel and Moll), XVII., Art. 6, 17.
- Pygurus asiaticus* Tok., XVII., Art. 12, 16.
- Pyramidella cinctella* Adams, XXI., 2, 24.
- *eximia* Lischke, XXI., Art. 2, 23.
- *spirata* Adams, XXI., Art. 2, 23.
- Pyroxenic components, in certain volcanic rocks from Bonin Island, III., 67-89.
- Quasi-ideal solution, XXV., Art. 10, 38.
- Rainbow, theory of, due to a circular source of light, XXI., Art. 3, 1.
- Rapana bezoar* Linné, XXI., Art. 2, 5.
- Reinite, examination of, XXV., Art. 15, 6.
- Reports of school-masters and others relating to the eruption of Bandai-san, III., 160-172.
- Reproductive elements of *Diaptomus*, V., 1-34 ;—of *Noctiluca miliaris*, VI., 297-334 ;—of *Allium fistulosum*, X., 193-223.
- Reptiles, batrachians and, from Formosa and adjacent islands, on a collection

of, XII., 215-225.

Retentiveness, on the magnetization and, of nickel wire under combined torsional and longitudinal stresses, II., 304-320.

Rhinoceros, XVI., Art. 6, 2.

Rhinochimæra pacifica, XIX., Art. 4, 1-20.

Rhombic pyroxene (in certain volcanic rocks from Bonin Island), III., 74.

Rhus succedanea, Früchte und Keimpflanzen von, XXIII., Art. 1, 1-11.

Rikuzen, Jurassic fossils from, XVIII., Art. 6, 1-13.

Ringicula arctata Gould, XXI., Art. 2, 32.

Rissoa cerithina Phil., XXI., Art. 2, 26.

——— *meridionalis* Tok., XXI., Art. 2, 27.

——— *septentrionalis* Tok., XXI., Art. 2, 26.

——— *subcylindrica* Tok., XXI., Art. 2, 27.

Riukiu, on some fossils from the island of, XVII., Art. 6; — curve, geologic structure of the, XVI., Art. 2, 1-67.

Rocks, kinetic measurements of the modulus of elasticity of, XX., Art. 10, 1;

——, modulus of elasticity of, and some inferences relating to seismology,

XX., Art. 9, 1; —, modulus of rigidity of, XIX., Art. 6, 1.

Rossellidæ, XVIII., Art. 7, 1-307.

Rotella costata Lesson, XXI., Art. 2, 27.

Saccharomyces anomalus, Vorkommen von, beim Sakebraten, XIX., Art. 18, 1-14.

Sagami Sea, topography of, XV., 6-15.

Sagenopteris bilobata Yabe, XX., Art. 8, 41.

Saghalin, ornithology of, XXIII., Art. 14, 1-69.

Sakishima group, raised coral reefs in the, XVI., Art. 1, 2.

Salenia hokkaidoensis Loriol, XVII., Art. 12, 4.

Salt solutions, temperature of steam arising from boiling, VI., 1.

Samasana (Kashô), the isle of, XIII., 46.

Sambagawa series, petrography of the, II., 83-109.

Saxicava arctica Desh., XXI., Art. 2, 36.

Saxidomus nuttalli Conrad, XXI., Art. 2, 45.

Scalaria acuminata Sow., XXI., Art. 2, 20.

- Scalaria immaculata* Sow., XXI., Art. 2, 19.
 ——— *lamellosa* Lam., XXI., Art. 2, 19.
Schizaster nummuliticus Tok., XVII., Art. 12, 21.
 ——— *recticanalis* Yosh., XVII., Art. 12, 20.
Schizoneura hoerensis Hisinger, XXI., Art. 9, 29.
Schlotheimia jimboi Yok., Art. 6, 4.
Schwagerina, XXI., Art. 5, 2.
 Schwerkraft, absolute Messung derselben in Kyoto, Kanazawa, Tokyo und Mizusawa mit Reversionspendeln ausgeführt, XVI., Art. 11, 1-87.
 Scyphomedusæ, some new, of Japan, VII., 1-17.
 Secondary undulations of oceanic tides, XXIV., 1-110.
 Seismic area, in the great earthquake in Central Japan, 1891, V., 319.
 Seismic waves, relation between the velocity of propagation and the amplitude, XIX., Art. 6, 34; —, space-distribution of, XXI., Art. 1, 13.
 Seismology and modulus of elasticity of rocks, XX., Art. 9, 1.
 Selenite, ethyl ammonium, and non-existence of amidoselenites, XI., 205-212.
 Sericite-schist, normal, (of the so-called crystalline schists of Chichibu), II., 85.
 Sero-amniotic connection in the chick, VI., 337-370.
 Shikoku, on some Cretaceous fossils from, IV., 357-366.
 Shinano, on the piedmontite-rhyolite from, IX., 117-122.
Sigaretus papillus Gmel., XXI., Art. 2, 19.
 Silkworm maggot, I., 14.
 Siluroid, dendritic appendages of the urogenital papilla of a, VIII., 367-380.
 Silver, distribution of, on the [one yen] coin, III., 292; —, partition between zinc and lead, XXV., Art. 9; — coin, fineness of the one yen, III., 289.
 Sinian system, XIX., Art. 1, 13.
Siphonalia cassidaræformis Reeve, XXI., Art. 2, 7.
 Sn 9 u, formulæ for, VII., 283-284.
 Sn 10 u, cn 10 u, dn 10 u, formulæ for, in terms of sn u, VII., 285-288.
 Sodium amidosulphonate, molecular conductivity of, IX., 263.
Solen gouldi Conrad, XXI., Art. 2, 35.
 — *krusensternii* Schrenck, XXI., Art. 2, 36.

Solutions, chemical theory of, XXV., Art. 10, 1.

Specific volume of camphor and of borneol determined with proximate accuracy, II., 1889, 321-327.

Specific volumes of aromatic compounds, II., 305.

Spermatogenesis in *Diaptomus*, V., 1-34.

Sphenopteris nakdongensis Yabe, XX., Art. 8, 38.

———— *tenuicula* Yok., VII., 217.

Spiders, development of, IV., 55-88; —, lateral eyes of, V., 101-103; — coelomic cavity of, VI., 287-294.

Spore-formation in *Noctiluca miliaris*, VI., 297-334; — in *Ephelota*, X., 119-137.

Starken einwertigen Elektrolyte, Äquivalentleitfähigkeit der, XXV., Art. 7, 11; —, Anomalie der, XXV., Art. 7, 1; —, Gefrierpunktserniedrigung der, XXV., Art. 7, 32; —, Konzentrationskette mit, XXV., Art. 7, 24; —, Teilungsverhältnis der, XXV., Art. 7, 29; —, Verdünnungswärme der, XXV., Art. 7, 41.

Steam, temperature of, arising from boiling salt solutions, VI., 1.

Steel, nickel, cobalt, and nickel steels, magnetostriction of, XVI., Art. 8, 1-33.

Steels, nickel, and cobalt, effect of temperature on the magnetization of, measured magnetometrically, XIX., Art. 9, 1-14.

Stigma, irritability of, IV., 205-213.

Stress, effect of, on magnetization, XXI., Art. 7, 1; —, thermoelectric effects of, in iron, IV., 341-356.

Sulphamide, preparation from ammonium amidosulphite, XVII., Art. 8, 1-6.

"Sulphatammon," VI., 57.

Sulphates, decomposition of, by ammonium chlorides in analysis, VII., 251-252.

Sulphazates, XIII., 227.

Sulphazidates, XIII., 232.

Sulphazilate, XIX., Art. 16, 2.

Sulphazilates, see peroxyaminesulphonates, XIX., Art. 15, 10.

Sulphazites, XIII., 229.

Sulphazotates, non-existence of its isomeride, XIII., 222; —, unity of oximi-

- disulphonates and, VII., 34.
- Sulphazotised salts of potassium (Fremy's), identification and constitution of, XIII., 225-233.
- Sulphites, constitution of, I., 102;—, interaction between, and nitrites, XIII., 281-310;—, ethyl ammonium, XI., 197;—, thiosulphate and trithionate, products of heating ammonium, XIII., 201-209.
- Sulphur, molecular weight of, in solution, VI., 41.
- Sulphur dioxide, combination of, with ammonia, XXI., 188.
- Sulphur Island, plants of, II., 143-147.
- Sumatra, the geologic structure of, XI., 86.
- Sun, elements of the spin of the, III., 269-287.
- Suprarenal bodies in the mouse, development of, IV., 215-237.
- Syakuhati*, acoustical investigation of the Japanese bamboo pipe, XXI., Art. 10, 1-34.
- Taiwan, notes on the geology of the dependent isles of, XIII., 1-56.
- Takanuki series, in the Archæan formation of the Abukuma plateau, V., 210.
- Tapes euglyptus* Phil., XXI., Art. 2, 50.
- *decussatus* Dunker, XXI., Art. 2, 49.
- *rigidus* Gould, XXI., Art. 2, 49.
- Telescope with circular aperture, diffraction phenomena in the focal plane of, due to a finite source of light, IX., 321-351.
- Tellina nipponica* Tok., XXI., Art. 2, 44.
- *nitidula* Dunker, XXI., Art. 2, 42.
- *ojiensis* Tok., XXI., Art. 2, 44.
- *rutila* Dunker, XXI., Art. 2, 44.
- *serricostata* Tok., XXI., Art. 2, 43.
- *tenera* Say, XXI., Art. 2, 43.
- *yedoensis* Lischke, XXI., Art. 2, 43.
- Tellurium, atomic weight of, IX., 123-128.
- Temnopleurus toreumaticus* (Klein), XVII., Art. 12, 5; XXI., Art. 2, 70.
- Temperature, effect of, on the magnetization of steels, nickel, and cobalt measured magnetometrically, XIX., Art. 9, 1-14;—of steam arising from

boiling salt solutions, VI., 1-19.

Terebra alveolata Hinds, XXI., Art. 2, 12.

——— *bipartita* Gould, XXI., Art. 2, 12.

——— *pretiosa* Reeve, XXI., Art. 2, 12.

——— *serotina* Adams, XXI., Art. 2, 13.

——— *subtextilis* Smith, XXI., Art. 2, 13.

Tertiary limestone near Sagara, Totomi, on same organic remains from the,
VII., 233-243.

Tetragonites crassus Jimbo sp., XVIII., Art. 2, 47.

——— *epigonus* Kossmat, XVIII., Art. 2, 49.

——— *glabrus* Jimbo sp., XVIII., Art. 2, 43.

——— *popetensis* Yabe, XVIII., Art. 2, 48.

——— *sphaeronotus* Jimbo sp., XVIII., Art. 2, 45.

Thalassema tenuoides and *T. elegans*, XXI., Art. 8, 1-64.

Thiosulphate, ammonium, product of heating, XIII., 205.

Thermal conductivity, of marble, II., 263-281.

Thermen, von Yumoto bei Nikko, Schwefelrasenbildung und Schwefelbakterien
der, X., 143-173.

Thermoelectric effects, of longitudinal stress in iron, IX., 27-52; —, of longitudinal tension in different metals, IX., 53-67; —, of stress in iron, IV., 341-356.

Thermoelectric positions of cobalt and bismuth, IV., 294-300.

Thorianite, preparation of nipponium from, XXV., Art. 15, 1; —, sulphide residue from, XXV., Art. 16, 10.

Thyrsopteris kagensis Yok., III., 23.

——— *murrayana* (Brgt.), III., 22.

——— *prisca* (Eichw.), III., 23.

Tieghemella japonica, sp. nov., XIX., Art. 19, 1-8.

Time lag in the magnetization of iron, IX., 295-519.

Tin, partition between zinc and lead, XXV., Art. 9.

Tinfoil grating, detector for electric waves, IX., 15-25; 111-116.

Titanite-amphibole-schist, in the Archæan formation of the Abukuma plateau,
V., 252.

Titanite-amphibolite, in the Archæan formation of the Abukuma plateau, V., 258-259.

Todites williamsoni (Brong.), XXI., Art. 9, 18, 25, 28.

Tokara group (Riukiu curve), geology of the, XVI., Art. 2, 25.

Tokyo earthquake of 1894, diagram of, VII., 289-292.

Tokyo, fossils from the environs of, XXI., Art. 2.

Topaz from Mino, notes on the, IX., 69-76.

Tornatella gigantea Dunker, XXI., Art. 2, 31.

Tornatina exilis Dunker, XXI., Art. 2, 31.

Torreya venusta Yok., VII., 230.

Torsion, combined effects of, and longitudinal stress on the magnetization of nickel, II., 283-303;—and magnetization, mutual relations between, in iron and nickel wires, XIII., 263-280.

Torsional and longitudinal stresses, on the magnetization and retentiveness of nickel wire under combined, II., 304-320.

Tosa, Mesozoic plants from, VII., 201-231.

Toxaster tosaensis Loriol, XVII., Art. 12, 18.

Transient current produced by twisting magnetized iron, steel, and nickel wires, III., 335-384.

Trematodes, ectoparasitic, of Japan, VIII., 1-273;—, exotic species of, XII., 263-295.

Tresus nuttali Conrad, XXI., Art. 2, 42.

Trichotropis unicarinata Brod., XXI., Art. 2, 20.

Tricladen Europa's, über einige, I., 337-358.

Trigonia hosourensis Yok., XVIII., Art. 6, 11.

——— *kikuchiana* Yok., IV., 363.

——— *rotundata* Yok., IV., 365.

——— *pocilliformis* Yok., IV., 361.

——— *v-costata* Lycett, XVIII., Art. 6, 8.

Triorthotoluenesulphohydroxylamine, XXV., Art. 13, 26.

Trisulphoxyazotate, XIX., Art. 15, 4.

Trithionate, ammonium, preparation of, XIII., 203;—, ammonium, product of heating, XIII., 205.

- Triton saulæ* Linné, XXI., Art. 2, 5.
- Trochus angulatus* Tok., XXI., Art. 2, 30.
- *argyrostomus* Gmelin, XXI., Art. 2, 29.
- *amussitatus* Gould, XXI., Art. 2, 29.
- *imperialis* Adams, XXI., Art. 2, 28.
- *japonicus* Adams, XXI., Art. 2, 29.
- Trochus shinagawensis* Tok., XXI., Art. 2, 29.
- Traditions and history (relating to the eruption of Bandai-san), III., 99.
- Trophon exiguus* Tok., XXI., Art. 2, 5.
- Tsushima, birds from, V., 105-128.
- Turbo granulatus* Gmelin, XXI., Art. 2, 28.
- *mekamiensis* Nishiwada, VII., 240.
- Turbonilla elegantissima* Mont., XXI., Art. 2, 22.
- *fusca* Adams, XXI., Art. 2, 22.
- *paucicostata* Tok., XXI., Art. 2, 22.
- Turritiles bergeri* Brong., XX., Art. 2, 4.
- *komotai* Yabe, XX., Art. 2, 7.
- Twist, effect of, on the magnetization of nickel and iron, III., 189-207.
- Twisting magnetized iron, steel, and nickel wires, transient current produced by, III., 335-384.
- Uginya sericaria*, life history of, I., 1-46.
- Umbelliferarum japonicarum, revisio, XVI., Art. 4, 1-108.
- Urushinsäure, die Hauptbestandteil des japanischen Lacks, XXV., Art. 6 1-17.
- Vallineriites jurassicus* Heer, III., 64.
- Vegetable oils, notes on Japanese, XXV., Art. 4, 1-7.
- Velocity of propagation and the amplitude of seismic waves, XIX., Art. 6, 34.
- Venus foliacea* Phill., XXI., Art. 2, 46.
- *stimpsoni* Gould, XXI., Art. 2, 46.
- Vertebrate meroblastic eggs, remarks on the nature of, X., 1-118.
- Verticale Luftströmung in der Erdatmosphäre, VII., 327.
- Vibration, of ferromagnetic wires, placed in a varying magnetizing field, XVI., Art. 10, 1-10.

Viscosity of dilute alcoholic solutions, **XXV.**, Art. 5, 1.

Volcanic products (in the eruption of Bandai-san), **III.**, 149.

Volume and weight of the mountain destroyed in the eruption of Bandai-san, **III.**, 144.

Volutharpa perryi Jay, **XXI.**, Art. 2, 8.

Waldheimia elongata Tok., **XXI.**, Art. 2, 69.

———— *grayi* Davidson, **XXI.**, Art. 2, 69.

Wiedemann effect, in ferromagnetic substances, **XVI.**, Art. 14, 1-17.

Willkürliche Functionen, Darstellbarkeit durch Reihen die nach den Wurzeln einer transcendenten Gleichung fortschreiten, **II.**, 1-15.

Wirbelgebiet der geradlinigen Isobaren, **II.**, 329.

Yoldia lanceolata Sow., **XXI.**, Art. 2, 57.

Zahlkörper, über die im Bereiche der rationalen complexen Zahlen Abel'schen, **XIX.**, Art. 5, 1-42.

Zamiophyllum buchianum (Ett.), **VII.**, 223.

———— *naumanni* Nath., **VII.**, 225.

Zamites parvifolius Geyl., **III.**, 45.