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SMITHSONIAN MISCELLANEOUS COLLECTIONS.

658

INDEX

TO THE

LITERATURE

OF THE

SPECTROSCOPE.

ALFRED TUCKERMAN, PH. D.



WASHINGTON:
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ADVERTISEMENT.

With the rapid accumulation of scientific memoirs and discussions, published from year to year in numerous journals and society proceedings, a constantly larger expenditure of time and labor is required by both the investigator and the student, to learn the sources of information and the condition of discovery in any given field. Hence is felt the growing need of classified indexes to the work done in the various fields of research, and hence the corresponding tendency of the age to supply such demand.

The present work aims at a general survey of Spectroscopic Literature, with references to authorities in its more special subdivisions, and it has been prepared for the Institution by Mr. Tuckerman, without other remuneration than the expectation of serving the interests of scientific inquirers.

It has been brought down to the middle of the year 1887.

S. P. LANGLEY,
Secretary Smithsonian Institution.

WASHINGTON, *February*, 1888.

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P R E F A C E .

This work is intended to be a list of all the books and smaller treatises, especially contributions to scientific periodicals, on the spectroscope and spectrum analysis from the beginning of our knowledge upon the subject until July, 1887; an Index or Bibliography of the Spectroscope and Spectrum Analysis.

It was begun at the suggestion of Dr. Wolcott Gibbs, whose work in connection with the subject is well known.

The object is to enable a chemist to find out at a glance all that has been published in any branch of his subject where the spectroscope is used, and what every writer has published.

The method pursued has been as follows: 1, to examine the bibliographies, booksellers' catalogues, and books on spectrum analysis for books; 2, to examine the scientific periodicals for the shorter treatises, the first and original contributions to the subject, and this was done volume by volume wherever there was no index to a series of years—as in the *Comptes Rendus* and the later volumes of the *Annales de Chimie et de Physique* and of (Poggendorff's, now Wiedemann's) *Annalen der Physik und Chemie*, as well as others. Use was made of the bibliography at the end of Roscoe's *Spectrum Analysis*, and in the reports of the British Association for 1881 and 1884, for such books and articles as the author could not find elsewhere. Credit is also due to the Astor Library and its managers for the means it afforded the author of making this Index.

After the greater part of the material was collected it was divided into such subjects as the titles indicated, in alphabetical order, easy finding being constantly kept in view. Titles have often been repeated more than once so as to make sure of their being found. Finally, at the suggestion of the Smithsonian Institution, the List of Authors was added.

The author hopes that his two objects, fullness and ready access of all the titles, will prove to have been gained.

NEW YORK, 1887.

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(Interesting here only in connection with polarized light.)

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(A full account of Bérard's experiments on the calorific rays of the spectrum.)

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(He discovered the uses of muriatic acid mixed with antimony in correcting secondary spectra in telescopes.)

(1 τ)

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Merz, *Das Leben und Wirken Fraunhofer*, Landshut, 1865.

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(Gives a small colored drawing of the spectrum as seen by Dr. Wollaston and himself, with the yellow line.)

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(See Spectro-bolometer.)

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(See Spectro-bolometer.)

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ELECTRIC APPARATUS.

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Das einfache euthyoptische Spectroskop.

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Eine Interferenz-Scala für das Spectroskop.

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NEW SPECTROSCOPE.

Un nouveau spectroscope.

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Ueber ein neues Spectroskop.

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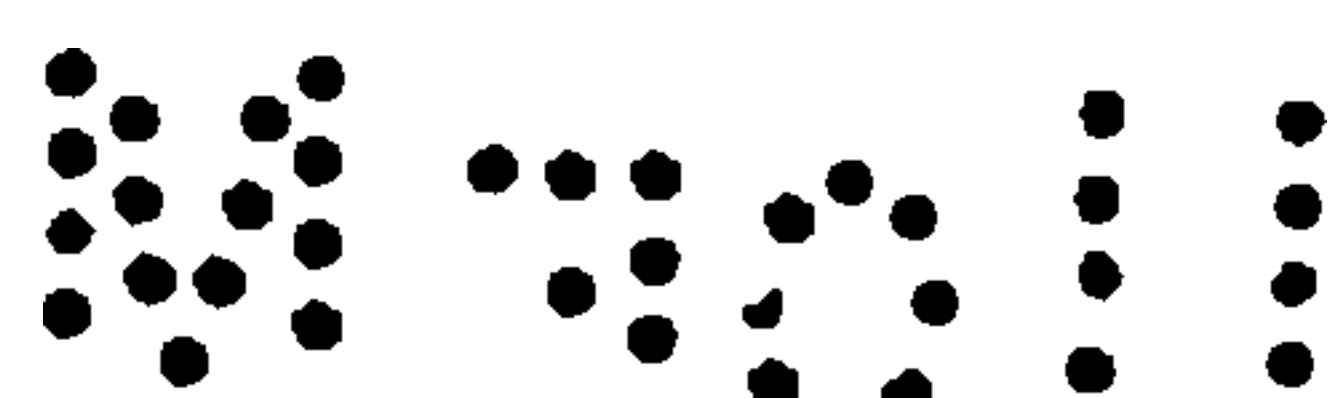
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[A photographic map of the solar spectrum is being made by Prof. Rowland, and some thirty parts of it have been distributed privately. At the end of the year 1887 it extended from wave-length 0.0003675 to wave-length 0.0005796.]



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Jahresber. d. Chemie, **16**, 101; **17**, 116.

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La découverte du moyen qui permet d'observer en tout temps les protubérances solaires.

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Travaux de M. Respighi pour l'observation spectrale des protubérances solaires.

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Taches et protubérances solaires observées avec un spectroscopie à grande dispersion.

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Sur une méthode employée par M. Lockyer pour observer en temps ordinaire les spectres des protubérances signalées dans les éclipses de Soleil.

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Beobachtung der Sonnenprotuberanzen in monochromatischem Lichte.

Zenker (W.). *Ann. Phys. u. Chem.*, **142**, 172-176.

Einrichtung des Spectroskops zur Wahrnehmung der Protuberanzen.

Zöllner (F.). *Ann. Phys. u. Chem.*, **138**, 42.

Beobachtungen von Protuberanzen der Sonne.

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26, *Radiation and the solar spectrum.***Recherches sur les effets de la radiation chimique de la lumière solaire, au moyen des courants électriques.**

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Remarques sur cette note, par M. Biot, do., 169.

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On certain remarkable groups in the lower spectrum.

Langley (S. P.). *Proc. Amer. Acad.*, **14**, 92-105; *Beiblätter*, **4**, 208.

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Eine Wellenlängenmessung im ultrarothem Sonnenspectrum.

Pringsheim (E.). *Ann. Phys. u. Chem.*, n. F. **18**, 82; *Amer. Jour. Sci.*, (3) **25**, 280.

Optical spectroscopy of the red end of the solar spectrum.

Smyth (C. Piazz). *Nature*, **16**, 264.

*28, Spectroscopic effect of rotation.***Sur la loi de rotation du Soleil; réponse à une réclamation du P. Secchi et à un mémoire du Dr. Zöllner.**

Faye. *Comptes Rendus*, **73**, 1122-31.

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Note sur quelques points de la théorie des cyclones solaires, en réponse à une critique par M. Vicaire.

Faye. *Comptes Rendus*, **76**, 733-41.

Réponse au P. Secchi et à M. Vicaire.

Faye. *Comptes Rendus*, **76**, 919-923, 977-982.

Note sur les cyclones solaires, avec une réponse de M. Respighi à M. M. Vicaire et Secchi.

Faye. *Comptes Rendus*, **76**, 1229-32.

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Tarry (H.). *Comptes Rendus*, **77**, 44-8.

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Airy (G. B.). *Monthly Notices Astronom. Soc.*, **38**, 82-3.

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Faye. *Comptes Rendus*, **78**, 1668-70.

Observations au sujet de la dernière note M. Tacchini, et du récent mémoire de M. Langley.

Faye. *Comptes Rendus*, **79**, 74-82.

Double série de dessins représentant les trombes terrestres et les taches solaires exécutée par M. Faye.

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Sur le dernier numéro des "Memorie dei Spettroscopisti italiani."

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Greenwich Observatory, Monthly Notices Astronom. Soc., **43**, 77.

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Sulla diversa attività dei due emisferi solari nel 1881.

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Observations des taches et des protubérances solaires pendant le 1 trimestre de 1878.

Tacchini (P.). *Comptes Rendus*, **86**, 1008.

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Macchie solari e facole osservate in Roma all'equatoriale di Cauchoix nel terzo trimestre, e nel ultimo trimestre 1879.

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Macchie solari e facole osservate a Roma nel mese di gennaio, 1880.

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AURORA AND ZODIACAL LIGHT.

The aurora and its spectrum.

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Le spectre de la lumière zodiacale et le spectre de l'aurore boréale sont identicales.

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Chlorure de Baryum (ou Ba O) dans le gaz.

Lecoq de Boisbaudran (F.). *Spectres Lumineux*, Paris, 1874, p. 57, 62, planche VII.

Bromure de baryum dans le gaz chargé de brome; iodure de baryum dans le gaz chargé d'iode.

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BERYLLIUM OR GLUCINUM.
Beryllium arc spectrum.

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Spectroscopische Untersuchung der blauen Grotte auf Capri.

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CHLOROPHYLL.

Propriétés optiques de la chlorophylle.

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(Look below under Pocklington.)

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COBALT.

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Spectre de l'étincelle électrique dans les gaz soumis à une pression croissante.

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Sur la réfraction des corps organiques considérées à l'état gazeux.

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(Look above, under Becquerel, and below, under Lubarsch.)*

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(His discovery of what has since been known as fluorescence.)

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GALLIUM.

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LIGHT.

Vitesse de la lumière fait que les bords du spectre sont diffus.

Arago. *Comptes Rendus*, **36**, 48.

Sur la rayonnement chimique qui accompagne la lumière, et sur les effets électriques en résultent.

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Emploi du spectroscope pour distinguer une lumière plus faible dans une plus forte.

Seguin. *Comptes Rendus*, **68**, 1822.

Chastaing's neue Theorie der chemischen Wirkung des Lichtes.

Vogel (H. W.). Ber. chem. Ges., **10**, 1688-44; Beiblätter, **1**, 681 (Abs.).

Les observations spectroscopiques à la lumière monochromatique.

Zenger (Ch. V.). Comptes Rendus, **94**, 155; Amer. Jour. Sci., (**8**) **23**, 822.

LIGHTNING.

(Look under Electricity.)

LIMITS.

Limites des couleurs dans le spectre.

Listing. Ann. Chim. et Phys., (**4**) **13**, 460.

Limites des couleurs dans le spectre.

Thalén (Rob.). Ann. Chim. et Phys., (**4**) **18**, 218.

LINES OF THE SPECTRUM.

Welchen Stoffen die Fraunhofer'schen Linien angehören.

Angström (A. J.). *Ann. Phys. u. Chem.*, **117**, 296–302.

Die Fraunhofer'schen Ringe, die Quetelet'schen Streifen und verwandte Erscheinungen.

Exner (K.). *Sitzungsber. d. Wiener Akad.*, **76** II, 522.

Bestimmung des Brechungs- und Farbenzerstreuungs-Vermögens verschiedener Glasarten.

Fraunhofer (Jos.). *Denkschr. d. k. Akad. d. Wiss. zu München*, Band **V** (1814–15), 198–226, mit drey Kupfertafeln, München, 1817, 4°.

Note on the theoretical explanation of Fraunhofer's lines.

Hartshorne (H.). *Jour. Franklin Inst.*, **75**, 88–48; **105**, 88; *Les Mondes*, **45**, 517–22; *Beiblätter*, **2**, 561.

Die Zusammensetzung des Spectrums.

Jahresber. d. Chemie, **1**, 197; **5**, 126, 181; **8**, 123.

Ueber die Fraunhofer'schen Linien.

Jahresber. d. Chemie, **3**, 154; **4**, 152; **5**, 124; **6**, 167; **7**, 137.

Anwendung der Fraunhofer'schen Linien als chemisches Reagens.

Jahresber. d. Chemie, **5**, 125.

Künstliches Spectrum einer Fraunhofer'schen Linie.

Jahresber. d. Chemie (1868), 124.

Newton, Wollaston, and Fraunhofer's lines.

Johnson (A.). *Nature*, **26**, 572; *Beiblätter*, **7**, 65–6 (Abs.).

On certain remarkable groups in the lower spectrum.

Langley (S. P.). *Proc. Amer. Acad.*, **14**, 92.

Erklärung der Linien und Streifen in den Lichtspectren.

Lecoq de Boisbaudran (F.). *Ber. chem. Ges.*, **2**, 614.

Mutual attraction of spectral lines.

Peirce (C. S.). *Nature*, **21**, 108; *Beiblätter*, **4**, 278 (Abs.).

On spectral lines of low temperature.

Salisbury (The Marquis of). *Phil. Mag.*, (4) **45**, 241–5; *Jour. Chem. Soc.*, (2) **11**, 711 (Abs.); *Amer. Jour. Sci.*, (3) **6**, 141–2.



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LIQUIDS.

Pouvoirs absorbants des corps pour la chaleur; solutions dans l'eau, etc.

Aymonnet. Comptes Rendus, **83**, 971.

Ueber eine einfache Methode zur approximativen Bestimmung der Brechungsexponenten flüssiger Körper.

Bodynski (J.). Carl's Repertorium, **18**, 502-4; Beiblätter, **6**, 932 (Abs.).

Molecular-Refraction flüssiger organischer Verbindungen von hohem Dispersifvermögen.

Brühl (J. W.). Ann. Phys. u. Chem., **235**, 1-106; Ber. chem. Ges., **19**, 2746 (Abs.); Jour. Chem. Soc., **52**, 191 (Abs.).

Spectroscopische Untersuchung der Constanten von Lösungen.

Burger (H.). Ber. chem. Ges., **11**, 1876.

Methoder til at maale Brydningsforholdet for farvede Vaedsker (Ueber die Messung des Brechungsverhältnisses gefärbter Flüssigkeiten).

Christiansen (C.). Oversigt kgl. Danske Vidensk. Selsk. Forh. (1882), 217-50; Ann. Phys. u. Chem., n. F. **19**, 257-67; Nature, **28**, 308 (Abs.).

Nouvelle méthode de détermination des indices de réfraction des liquides.

Croullebois (M.). Ann. Chim. et Phys., (4) **22**, 139-50.

Recherches sur le pouvoir réfringent des liquides.

Damien (B. C.). Ann. de l'École normale, (2) **10**, 233-304; Beiblätter, **5**, 579-84 (Abs.); Jour. de Phys., **10**, 394-401, 431-34 (Abs.).

On the specific refraction and dispersion of light by liquids.

Gladstone (J. H.). Rept. British Assoc. (1881), 591; Nature, **24**, 468 (Abs.); Beiblätter, **6**, 21 (Abs.).

Ueber Regenbogen, gebildet durch Flüssigkeiten von verschiedenen Brechungsexponenten.

Hammerl (H.). Sitzungsber. d. Wiener Akad., **86** II, 206-15; Beiblätter, **7**, 383-5 (Abs.).

Preliminary notice of experiments concerning the chemical constitution of saline solutions.

Hartley (W. N.). Proc. Royal Soc., **22**, 241-3; Chem. News, **29**, 148.

On the action of heat on the absorption spectra and chemical constitution of saline solutions.

Hartley (W. N.). Proc. Royal Soc., **23**, 872-8; Phil. Mag., (5) **1**, 244-5; Ber. chem. Ges., **8**, 765 (Abs.).

Application des franges de Talbot à la détermination des indices de réfraction des liquides.

Hurion. Comptes Rendus, **92**, 452-8.

Spectren gefärbter Lösungen.

Jahresber. d. Chemie, **15**, 84.

Ueber die Constitution von Lösungen.

Krüss (G.). Ber. chem. Ges., **10**, 1248-9; Jour. Chem. Soc., **42**, 1018 (Abs.); Nature, **26**, 568; Beiblätter, **6**, 677 (Abs.); Amer. Jour. Sci., (3) **24**, 141 (Abs.).

Ueber das Absorptionsspectrum der flüssigen Untersalpetersäure.

Kundt (A.). Ann. Phys. u. Chem., (2) **7**, 64 (Abs.); Jour. Chem. Soc., (2) **9**, 185 (Abs.).

Ueber den Einfluss des Lösungsmittels auf die Absorptionsspectra gelöster absorbirender Mittel.

Kundt (A.). Sitzungsber. d. Münchener Akad. (1877), 234-62; Ann. Phys. u. Chem., n. F. **4**, 84-54.

Recherches sur l'illumination des liquides, etc.

Lallemand. Comptes Rendus, **69**, 182.

Ueber die Molecularrefraction flüssiger organischer Verbindungen.

Landolt (H.). Sitzungsber. d. Wiener Akad. (1882), 62-91; Ann. Phys. u. Chem., **213**, 75-112; Beiblätter, **7**, 848; Ber. chem. Ges., **15**, 1081-40; Jour. Chem. Soc., **42**, 909 (Abs.).

Absorption des Lichtes durch gefärbte Flüssigkeiten.

Melde (F.). Ann. Phys. u. Chem., **124**, 91; **126**, 264.

Observations on the colour of fluorescent solutions.

Morton (H.). Amer. Jour. Sci., (3) **2**, 198-9, 855-7; Jour. Chem. Soc., (2) **9**, 992 (Abs.); **10**, 27 (Abs.); Chem. News, **24**, 77.

Ueber die Aenderung des Volumens und des Brechungsexponenten von Flüssigkeiten durch hydrostatischen Druck.

Quincke (G.). Ann. Phys. u. Chem., n. F. **19**, 401-85; Sitzungsber. d. Berliner Akad. (1883), 409 (Abs.); Nature, **28**, 808 (Abs.).

Ueber eine neue Flüssigkeit von hohem specifischen Gewicht, hohem Brechungsexponenten und grosser Dispersion.

Rohrbach (C.). *Ann. Phys. u. Chem.*, n. F. **1**, 169-74; *Amer. Jour. Sci.*, (3) **26**, 406 (Abs.); *Jour. Chem. Soc.*, **46**, 145 (Abs.).

On the absorption bands in the visible spectrum produced by certain colourless liquids.

Russell (W. J.) and Lapraik (W.). *Jour. Chem. Soc.*, **39**, 168-78; *Amer. Jour. Sci.*, (3) **21**, 500 (Abs.); *Nature*, **22**, 368-70; *Beiblätter*, **5**, 44-5.

Ueber die Absorption des Lichtes durch Flüssigkeiten.

Schönn (J. L.). *Ann. Phys. u. Chem.*, n. F. **6**, 267-70.

Untersuchungen über die Abhängigkeit der Molecularrefraction flüssiger Verbindungen von ihrer chemischen Constitution.

Schröder (H.). *Ber. chem. Ges.*, **15**, 994-8; *Jour. Chem. Soc.*, **42**, 910 (Abs.).

Fernere Untersuchungen über die Abhängigkeit der Molecularrefraction flüssiger Verbindungen von ihrer chemischen Zusammensetzung.

Schröder (H.). *Sitzungsber. d. Münchener Akad.* (1882), 57-104; *Ann. Phys. u. Chem.*, n. F. **15**, 636-75; **18**, 148-75; *Jour. Chem. Soc.*, **42**, 1158 (Abs.); **44**, 588 (Abs.).

Sur les spectres d'absorption ultra-violetts des différents liquides.

Soret (J. L.). *Arch. de Genève*, (2) **60**, 298-300; *Beiblätter*, **2**, 30 (Abs.).

Zur Spectralanalyse gefärbter Flüssigkeiten, Gläser und Dämpfe.

Stein (W.). *Jour. pract. Chemie*, **10**, 368-84; *Jour. Chem. Soc.*, (2) **13**, 412 (Abs.).

Méthode nouvelle pour déterminer l'indice de réfraction des liquides.

Terquem et Trannin. *Comptes Rendus*, **78**, 1843-5; *Dingler's Jour.*, **212**, 552-4; *Jour. de Phys.*, **4**, 282-8; *Ann. Phys. u. Chem.*, **157**, 802-9.

Ueber eine Methode zur Untersuchung der Absorption des Lichtes durch gefärbte Lösungen.

Tumlirz (O.). *Wiener Anzeigen* (1882), 165 (Abs.); *Beiblätter*, **7**, 895 (Abs.); *Chem. News*, **49**, 201 (Abs.).

Absorption spectra of certain organic liquids.

Wolf (C. H.). *Chem. News*, **47**, 178.



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On the spectra of magnesium and lithium.

Liveing (G. D.) and Dewar (J.). *Proc. Royal Soc.*, **30**, 93-9; *Beiblätter*, **4**, 866 (Abs.).

Note on the order of reversibility of the lithium lines.

Liveing (G. D.) and Dewar (J.). *Proc. Royal Soc.*, **35**, 76; *Chem. News*, **47**, 188.

Sur les spectres des vapeurs aux températures élevées, lithium.

Lockyer (J. N.). *Comptes Rendus*, **78**, 1790; *Nature*, **30**, 78; *Chem. News*, **30**, 98.

Sur l'origine de l'arsenic et de la lithine dans les eaux sulfatées calciques.

Schlagdenhauffen. *Jour. de Pharm.*, (5) **6**, 457-63; *Jour. Chem. Soc.*, **44**, 802 (Abs.).

On the flame of lithia.

Talbot (H. Fox). *Phil. Mag.*, (3) **4**, 11.

De la présence de la lithine dans le sol de la Limagne et des eaux minérales de l'Auvergne. Dosage de cet alcali au moyen du spectroscope.

Truchot (P.). *Comptes Rendus*, **78**, 1022-4; *Ber. chem. Ges.*, **7**, 653 (Abs.).

The blue band in the lithium spectrum.

Tyndall and Franckland. *Phil. Mag.*, (4) **22**, 151, 472.

LONGITUDINAL RAYS.

Note sur les raies longitudinales observées dans le spectre prismatique par M. Zantedeschi.

Babinet. *Comptes Rendus*, **35**, 418. (Look below.)

Raies longitudinales du spectre.

Porro. *Comptes Rendus*, **35**, 479.

Sur les lignes longitudinales du spectre.

Wartmann (E.). *Arch. des Sciences phys. et nat.*, **7**, 88; **10**, 802; *Phil. Mag.*, **32**, 499.

Sur les causes des lignes longitudinales du spectre.

Zantedeschi (F.). *Archives des Sciences phys. et nat.*, **12**, 48; *Corresp. scient. di Roma*, No. **9**, 69.

LUMINOUS SPECTRA.

Observations sur le rayonnement des corps lumineux.

Baudrimont. *Comptes Rendus*, **33**, 496.

Divers effets lumineux qui résultent de l'action de la lumière sur les corps.

Becquerel (E.). *Comptes Rendus*, **45**, 817.

Constitution du spectre lumineux.

Lecoq de Boisbaudran (F.). *Comptes Rendus*, **69**, 445, 606, 657, 694; **73**, 658.

Recherches d'analyse spectrale.

Volpicelli. *Comptes Rendus*, **57**, 571.

Sur les causes des effets lumineux, etc.

Volpicelli. *Comptes Rendus*, **69**, 780.

MAGNESIUM.

Lead and magnesium spark spectrum, magnesium spark spectrum, magnesium arc spectrum.

Capron (J. R.). Photographed Spectra, London, 1877, p. 84, 85, 86.

Détermination des longueurs d'onde des radiations très réfrangibles du magnésium, du cadmium, du zinc et de l'aluminium.

Cornu (A.). Archives de Genève, (8) 2, 119-126; Beiblätter, 4, 84 (Abs.); Jour. de Phys., 10, 425-81.

Renversement des raies spectrales du magnésium.

Cornu (A.). Comptes Rendus, 73, 882.

Recherches sur le spectre du magnésium en rapport avec la constitution du Soleil.

Fiévez (C.). Bull. de l'Acad. de Belgique, (2) 50, 91-8; Beiblätter, 4, 789 (Abs.); Ann. Chim. et Phys., (5) 23, 366-72.

Spectre de chlorure de magnésium.

Gouy. Comptes Rendus, 84, 281.

Spectre continu des sels de magnésie.

Gouy. Comptes Rendus, 84, 878.

Spectrum des Magnesiumlichtes.

Jahresber. d. Chemie, 18, 96; 23, 174; 25, 145.

Chlorure de magnésium en solution.

Lecoq de Boisbaudran (F.). Spectres Lumineux, Paris, 1874, p. 85, planche XII.

Permanganate de potasse en solution.

Lecoq de Boisbaudran (F.). Spectres Lumineux, Paris, 1874, p. 108, planche XVI.

Ueber eine empfindliche spectralanalytische Reaction auf Thonerde und Magnesia.

Lepel (F. von). Ber. chem. Ges., 9, 1641.

Ueber den Nachweis der Magnesia mit Hülfe des Spectroskops.

Lepel (F. von). Ber. chem. Ges., 9, 1845; 10, 159; Bull. Soc. chim. Paris, n. s. 28, 478; Jour. Chem. Soc., 1877, 1, 676; Beiblätter, 1, 240 (Abs.).



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Ueber eine empfindliche Spectralreaction auf Magnesium.

Vogel (H. W.). Ber. chem. Ges., **9**, 1641; Jour. Chem. Soc., 1877, **1**, 742 (Abs.); Beiblätter, **1**, 240 (Abs.); Bull. Soc. chim. Paris, n. s. **28**, 475.

Die Purpurin-Thonerde-Magnesia-Reaction.

Vogel (H. W.). Ber. chem. Ges., **10**, 157, 378.

MANGANESE.

Sur l'effet du manganèse sur la phosphorescence du calcium carbonate.

Becquerel (E.). Comptes Rendus, **103**, 1098–1101; Jour. Chem. Soc., **52**, 190 (Abs.).

Ueber das Absorptionsspectrum des übermangansauren Kalis, und seine Benutzung bei chemisch-analytischen Arbeiten.

Brücke (E.). Chemisches Centralblatt, (3) **8**, 139–143; Jour. Chem. Soc., **34**, 242 (Abs.).

Manganese arc spectrum.

Capron (J. R.). Photographed Spectra, London, 1877, p. 86.

On the light reflected by potassium permanganate.

Conroy (Sir J.). Proc. Royal Soc., **2**, 340–4; Phil. Mag., (5) **6**, 454–8; Jour. Chem. Soc., **36**, 425 (Abs.).

Spectre de l'azotate de manganèse.

Gouy. Comptes Rendus, **84**, 231; Chem. News, **35**, 107.

Absorptionslinien der Manganlösungen.

Hoppe-Seyler. Jour. prakt. Chemie, **90**, 303.

Spectra of manganese in blowpipe beads.

Horner (Charles). Chem. News, **25**, 189.

Anwendung der dunklen Linien des Spectrums als Reagens auf Mangan-säure.

Jahresber. d. Chemie, **5**, 125.

Absorptionsspectrum des Mangansuperchlorids.

Jahresber. d. Chemie (1869), 184.

Chlorure de manganèse en solution, étincelle courte; do., étincelle moyenne; do., dans le gaz.

Lecoq de Boisbaudran (F.). Spectres Lumineux, Paris, 1874, p. 110, 114, 120, planches XVII, XVIII.

Fluorescence des composés de manganèse dans la vide sous l'influence de l'arc voltaïque.

Lecoq de Boisbaudran (F.). Comptes Rendus, **103**, 468–471; Jour. Chem. Soc., **52**, 3 (Abs.); Beiblätter, **11**, 87.

Das Absorption der Mangansäure nicht die Umkehrung einer durch Manganchlorür gefärbten Flamme.

Müller (J.). Ann. Phys. u. Chem., **128**, 885.

Spectrum von Mangan.

Simmler (R. Th.). Ann. Phys. u. Chem., **115**, 425.

Das von übermangansaurem Kali reflectirte Licht.

Wiedemann (E.). Ann. Phys. u. Chem., **151**, 625.



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Untersuchungen über das Sonnenspectrum und die Spectren der chemischen Elemente.

Kirchhoff (G.). Besondere Abdrücke aus den Abhandlungen der Berliner Akademie der Wissenschaften, 1861 und 1862. I. Theil, Dümmler, Berlin, 1864, 4°. II. Theil, Dümmler, Berlin, 1875, 4°. Mit vier Tafeln.

(He used an arbitrary scale.)

Recherches sur le spectre solaire ultra-violet, et sur la détermination des longueurs d'onde, suivies d'une note sur les formules de dispersion.

Mascart (E.). Extrait des Annales scientifiques de l'École normale supérieure, t. I (1864), Paris, Gauthier-Villars, 1864, 4°.

Recherches sur la détermination des longueurs d'onde.

Mascart (E.). Paris, Gauthier-Villars, 1866, 4°. Extrait des Annales de l'École normale supérieure, t. IV. Avec un planche.

[A photographic map of the solar spectrum is being prepared by Prof. Rowland, and some parts of it have been distributed, viz: wave-lengths: 0.0003675 to 0.0005796.]

Mémoire sur la détermination des longueurs d'onde des raies métalliques.

Thalén (Rob.). Upsal., W. Schultz, 1868, 4°. Mit zwei Tafeln. Extrait des Nova Acta Reg. Soc. Sci. Upsal., Ser. III, Vol. VI.

(Gives the wave-lengths of the bright rays of the metals.)

Le spectre d'absorption de la vapeur d'iode.

Thalén (Rob.). Upsal., Ed. Berling, 1869, 4°. Avec trois planches.

[Thollon's map of the solar spectrum is in Vol. I of the Annales de l'Observatoire de Nice, which is about to appear. Vol. II will contain a smaller map or sheets of the group B.]

MERCURY.**Mercury spark spectrum.**

Capron (J. R.). *Photographed Spectra*, London, 1877, p. 37.

Spectre du cinabre, de l'oxide de mercure, de l'iodure de mercure.

Lallemand (A.). *Comptes Rendus*, **78**, 1272.

Bichlorure de mercure en solution, étincelle.

Lecoq de Boisbaudran (F.). *Spectres Lumineux*, Paris, 1874, p. 169, planche XIV.

On the dispersion of a solution of mercuric iodide.

Liveing (G. D.). *Proc. Philosoph. Soc. Cambridge*, **3**, 258-60; *Beiblätter*, **4**, 610 (Abs.).

Spectrum of mercury at elevated temperatures.

Lockyer (J. N.). *Chem. News*, **30**, 98; *Nature*, **30**, 78; *Comptes Rendus*, **78**, 178.

Emissionsspectra der Haloïdverbindungen des Quecksilbers.

Peirce (B. O.). *Ann. Phys. u. Chem.*, n. F. **6**, 597.

Ueber die Spectren des Wasserstoffs, Quecksilbers, und Stickstoffs.

Vogel (H. W.). *Monatsber. d. Berliner Akad.* (1879), 586-604; *Beiblätter*, **4**, 125-30; *Amer. Jour. Sci.*, (8) **19**, 406 (Abs.).

METALS.

Researches on the spectra of the metalloids.

Angström (A. J.) and Thalén (Rob.). *Acta Soc. Upsala*, (3) **9**;
Nature, **15**, 401 (Abs.); *Beiblätter*, **1**, 85-47; *Bull. Soc. chim. Paris*,
 n. s. **25**, 188.

Spectres d'émission infra-rouges des vapeurs métalliques.

Becquerel (H.). *Comptes Rendus*, **97**, 71-4; **99**, 874; *Chem. News*,
48, 46 (Abs.); *Nature*, **28**, 287 (Abs.); *Beiblätter*, **7**, 701 (Abs.);
Amer. Jour. Sci., (3) **26**, 321 (Abs.); **28**, 459 (Abs.); *Ber. chem.*
Ges., **16**, 2487 (Abs.); *Jour. Chem. Soc.*, **46**, 1 (Abs.); *Zeitschr. f.*
analyt. Chemie, **23**, 49 (Abs.); *Phil. Mag.*, Oct., 1884.

Procédé pour obtenir en projection les raies des métaux et leur renversement.

Boudréaux. *Jour. de Phys.*, **3**, 306.

Ueber die elektrische Spectra der Metallen.

Brassack. *Zeitschr. f. d. Gesellsch. f. Naturwiss*, **9**, 185.

Dissociation of the metalloid elements.

Brodie (B. C.). *Nature*, **21**, 491-2.

Discoveries of the new alkaline metals.

Bunsen (R.). *Ber. d. Berliner Akad.*, 10 Mai, 1860; *Chem. News*, **3**,
 182.

Kleinste im Inductionsfunken durch die Spectralanalyse noch erkennbare Gewichtsmenge verschiedener Metalle; do., im Bunsen'schen Gasflamme; Vergleich beider.

Cappel (E.). *Ann. Phys. u. Chem.*, **139**, 681.

Some experiments on metallic reflection with the spectroscope.

Conroy (Sir J.). *Proc. Royal Soc.*, **28**, 244.

On the projection of the spectra of the metals.

Cooke (J. P.). *Amer. Jour. Sci.*, (2) **40**, 248.

Renversement des raies spectrales des vapeurs métalliques.

Cornu (A.). *Comptes Rendus*, **73**, 882; *Bull. Soc. chim. Paris*, n. s.
15, 5.

On the means of increasing the intensity of metallic spectra.

Crookes (W.). *Chem. News*, **5**, 234.



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Unterschiede in den Spectren bei Anwendung der Metalle oder der Chlor- metalle.

Jahresber. d. Chemie, **15**, 81, 82.

Constanz der Metallspectren.

Jahresber. d. Chemie, **15**, 82.

Electrische Metallspectren.

Jahresber. d. Chemie, **15**, 88; **16**, 104, 106, 107, 118; **17**, 115; **18**,
90, 91.

Einfluss nichtmetallischer Elemente auf die Spectra der Metalle.

Jahresber. d. Chemie, **18**, 87.

Umkehrung der hellen Spectrallinien der Metalle, insbesondere des Natriums in dunkle.

Jahresber. d. Chemie, **18**, 90.

Objectivdarstellung der Metallspectren.

Jahresber. d. Chemie, **26**, 147.

Spectren der Metalloiden.

Jahresber. d. Chemie, **26**, 149.

Metallspectra.

Jahresber. d. Chemie, **28**, 122.

Absorptionspectra von Metalldämpfen.

Jahresber. d. Chemie, **28**, 124, 125.

Quelques spectres métalliques; plomb, chlorure d'or, thallium, lithium.

Lecoq de Boisbaudran (F.). Comptes Rendus, **77**, 1152; Bull. Soc.
chim. Paris, n. s. **21**, 125-6.

Sur un nouveau ordre des spectres métalliques.

Lecoq de Boisbaudran (F.). Comptes Rendus, **100**, 1487-40; Jour.
Chem. Soc., **48**, 949 (Abs.).

Spectra of metallic compounds.

Leeds (A. R.). Jour. Franklin Inst., **90**, 194.

Reversal lines of metallic vapours.

Living (G. D.) and Dewar (J.). Proc. Royal Soc., (No. I) **27**, 132-6;
(No. II) **27**, 350-4; (No. III) **27**, 494-6; (No. IV) **28**, 852-8;
(No. V) **28**, 867-72; (No. VI) **28**, 471-5; (No. VII) **29**, 402-6.
Beiblätter, **2**, 261 (Abs.), 490 (Abs.); **3**, 710 (Abs.); **4**, 364 (Abs.).

On the disappearance of some spectral lines and the variations of metallic spectra due to mixed vapours.

Liveing (G. D.) and Dewar (J.). *Proc. Royal Soc.*, **33**, 428-34; *Jour. Chem. Soc.*, **44**, 2-8 (Abs.); *Beiblätter*, **6**, 676 (Abs.).

Spectral lines of the metals developed by exploding gases.

Liveing (G. D.) and Dewar (J.). *Phil. Mag.*, (5) **18**, 161-78.

On the circumstances producing the reversal of the spectral lines of metals.

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Cornu (A.). Comptes Rendus, **73**, 882.

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Reversal of the sodium lines.

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(Look below, under Janssen.)

Spectre de la soude dans les tubes de Geissler.

Chautard (J.). *Comptes Rendus*, **82**, 278.

Renversement des raies spectrales du sodium.

Cornu (A.). *Comptes Rendus*, **73**, 382; *Jour. de Phys.*, **1**, 206.

Ueber die Opacität der gelben Natronflamme für Licht von ihrer eignen Farbe.

Crookes (W.). *Ann. Phys. u. Chem.*, **112**, 844.

Indices de réfraction des dissolutions aqueuses d'acide acétique et d'hypo-sulfite de soude.

Damien. *Comptes Rendus*, **91**, 828-5; *Beiblätter*, **5**, 41.

Das Verhältniss der Intensitäten der beiden Natriumlinien.

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Recherches photométriques sur le sodium.

Gouy. *Comptes Rendus*, **83**, 269; **85**, 70; **86**, 878, 1078.

Ueber ein einfaches Verfahren die Umkehrung der farbigen Linien der Flammenspectra, insbesondere der Natriumlinie, subjectiv dazustellen.

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Sur l'emploi de la lumière monochromatique, produite par les sels de soude, pour apprécier les changements de couleur de la teinture de tournesol, dans les essais alkalimétriques.

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Spectrum des Natriums.

Jahresber. d. Chemie, **15** (1862), 29, 80.

Umkehrung der hellen Spectrallinien der Metalle, insbesondere des Natriums, in dunkle.

Jahresber. d. Chemie, **18** (1865), 90.

Note sur l'analyse spectrale quantitative, à propos de la communication précédente de M. M. Champion, Pellet et Grenier.

Janssen (J.). *Comptes Rendus*, **76**, 711-18; *Jour. Chem. Soc.*, (2) **11**, 1258 (Abs.).

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Kirchhoff (G.) und Bunsen (R.). *Ann. Phys. u. Chem.*, **110**, 161-87.

Ueber anomale Dispersion im glühenden Natriumdamp.

Kundt (A.). *Ann. Phys. u. Chem.*, n. F. **10**, 821-5; *Phil. Mag.*, (5) **10**, 58-7.

Sulfate de soude fondu, étincelle; sels de soude dans le gaz; sels de soude et de lithine dans le gaz.

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Reversal of the lines of the metallic vapours, sodium.

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On the spectra of sodium and potassium.

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Spectrum of sodium at elevated temperatures.

Lockyer (J. N.). *Chem. News*, **30**, 98.



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STRONTIUM.

Ueber den Einfluss der Temperatur auf die Brechungsexponenten der natürlichen Sulfate des Baryum, Strontium und Blei.

Arzruni (A.). Zeitschr. Krystallogr. u. Mineral., **1**, 165–192; Jahrb. f. Mineral., 1877, 526 (Abs.); Jour. Chem. Soc., **34**, 189 (Abs.).

Strontium spark spectrum.

Capron (J. R.). Photographed Spectra, London, 1877, p. 44.

La strontiane dans les eaux minérales de Contrexeville et Schinznach (Suisse).

Dieulafait. Comptes Rendus, **95**, 999–1001; Jour. Chem. Soc., **44**, 801 (Abs.).

Recherches photométriques sur le strontium.

Gouy. Comptes Rendus, **83**, 269.

Spectre de chlorure de strontium.

Gouy. Comptes Rendus, **84**, 231.

Recherches photométriques; spectre du strontium.

Gouy. Comptes Rendus, **85**, 70.

Sur les caractères des flammes chargées du chlorure de strontium.

Gouy. Comptes Rendus, **85**, 439.

Spectre continu du strontium.

Gouy. Comptes Rendus, **86**, 878, 1078.

Spectrum von Strontium.

Jahresber. d. Chemie, **23** (1870), 174.

Chlorure de strontium en solution, étincelle; dans le gaz; dans le gaz chargé de H Cl.

Lecoq de Boisbaudran (F.). Spectres Lumineux, Paris, 1874, p. 69, planche IX; p. 72 et 75, planche X.

Linien von Strontium.

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On the violet phosphorescence in calcium sulphide.

Abney (W. de W.). *Proc. Physical Soc.*, **5**, 85-8; *Nature*, **35**, 855 (Abs.); *Phil. Mag.*, (5) **13**, 212-14; *Jour. Chem. Soc.*, **42**, 677 (Abs.); *Beiblätter*, **6**, 888 (Abs.); *Jour. de Phys.*, (2) **2**, 287 (Abs.).

Spectres des gaz simples; soufre.

Angström (A. J.). *Comptes Rendus*, **73**, 869; *Ann. Phys. u. Chem.*, **94**, 159.

Spectre du sulfure de carbone.

Becquerel (H.). *Comptes Rendus*, **85**, 1227.

Sulphur spectrum, sulphuric acid spectrum, sulphur quartz spectrum.

Capron (J. R.). *Photographed Spectra*, London, 1877, p. 68, 74, 75.

Spectrum von Schwefel.

Dibbits (H. C.). *Ann. Phys. u. Chem.*, **122**, 527-34.

Spectre du soufre.

Ditte (A.). *Comptes Rendus*, **73**, 622-4; *Bull. Soc. chim. Paris*, n. s. **16**, 229.

Spectres d'absorption des vapeurs de soufre.

Gernez (D.). *Comptes Rendus*, **74**, 808; *Bull. Soc. chim. Paris*, n. s. **17**, 259.

Spectre de sulfate de thallium.

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Sulfate acide.

Gouy. *Comptes Rendus*, **85**, 70.

Spectrum of murexide.

Hartley (W. N.). *Jour. Chem. Soc.*, **51** (1887), 199-200.

Spectrum des Schwefels.

Jahresber. d. Chemie, **16** (1863), 110; **17** (1864), 109; **22** (1869), 181; **23** (1870), 178; **25** (1872), 189, 141; **28** (1875), 122.

Spectre du sulfure de plomb.

Lallemand (A.). *Comptes Rendus*, **78**, 1272.

Sur la diffusion lumineuse du sulfure de cuivre obtenu sans précipitation.

Lallemand (A.). *Comptes Rendus*, **79**, 698.

Die Absorptionsstreifen in Prismen von Schwefelkohlenstoff.

Lamansky (S.). *Ann. Phys. u. Chem.*, **146**, 213, 215.

Sur les spectres des vapeurs aux températures élevées; spectre du soufre.

Lockyer (J. N.). *Comptes Rendus*, **78**, 1790; *Nature*, **30**, 78; *Chemical News*, **30**, 98.

Spectrum des Schwefels, Schwefelkohlenstoffs, Schwefelwasserstoffs und Selens.

Mulder. *Jour. pract. Chemie*, **91**, 111.

Sulla refrazione atomica dello zolfo.

Nasini (R.). *Gazz. chim. ital.*, **13**, 296-311; *Jour. Chem. Soc.*, **46**, 149-51 (Abs.); *Ber. chem. Ges.*, **15**, 2878-92; *Beiblätter*, **7**, 281 (Abs.).

Dampf des wasserfreien Schwefelsäure.

Plücker. *Ann. Phys. u. Chem.*, **113**, 276, 278.

Spectrum des Muroxids.

Reynolds. *Jour. pract. Chemie*, **105**, 359.

De la flamme du soufre, et des diverses lumières utilisables en photographie.

Riche (A.) et Brady (C.). *Comptes Rendus*, **80**, 238-41; *Ber. chem. Ges.*, **8**, 182 (Abs.).

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Salet (G.). *Comptes Rendus*, **68**, 404; *Bull. Soc. chim. Paris*, n. s. **11**, 302; *Ann. Phys. u. Chem.*, **137**, 171.

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Salet (G.). *Comptes Rendus*, **73**, 559.

Recherche du soufre et du phosphore par le spectroscopie.

Salet (G.). *Bull. Soc. chim. Paris*, n. s. **13**, 289.

Sur la réaction spectroscopique du soufre et sur la flamme de l'hydrogène.

Salet (G.). *Bull. Soc. chim. Paris*, n. s. **14**, 182.

Sur le spectre d'absorption de la vapeur du soufre.

Salet (G.). *Comptes Rendus*, **74**, 865-6; *Jour. Chem. Soc.*, (2) **10**, 382 (Abs.); *Ber. chem. Ges.*, **5**, 328 (Abs.).

Sur les spectres du phosphore et du soufre.

Séguin (J. M.). *Comptes Rendus*, **53**, 1272.

Propriétés optiques d'hyposulfite de soude.

Sénarmont (H. de). *Ann. Phys. u. Chem.*, (3) **41**, 386.



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THALLIUM.

Thallium and indium spark spectrum.

Capron (J. R.). Photographed Spectra, London, 1877, p. 45, 47.

Renversement des raies spectrales du thallium.

Cornu (A.). Comptes Rendus, **73**, 882.

Discovery of thallium.

Crookes (W.). Chem. News, **3**, 193.

Thallium and its compounds.

Crookes (W.). Jour. Chem. Soc., **17**, 112.

Recherches photométriques sur le thallium.

Gouy. Comptes Rendus, **83**, 269.

Spectre de sulfate de thallium.

Gouy. Comptes Rendus, **84**, 231.

Spectrum des Thalliums und der Thalliumsalzen.

Jahresber. d. Chemie, **16** (1863), 112; **26** (1878), 152, 158.

Sur le thallium, nouveau métal dont l'analyse spectrale a fait connaître l'existence.

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Moyen de constater un empoisonnement par le thallium.

Lamy (A.). Comptes Rendus, **57**, 442.

Sels de thallium dans le gaz.

Lecoq de Boisbaudran (F.). Spectres Lumineux, Paris, 1874, p. 141, planche XXI.

Spectre de thallium.

Lecoq de Boisbaudran (F.). Comptes Rendus, **77**, 1152; Bull. Soc. chim. de Paris, n. s. **21**, 125.

Note on the spectrum of thallium.

Miller (W. A.). Proc. Royal Soc., **12**, 407.

Sur la raie spectrale du thallium.

Nicklès. Comptes Rendus, **58**, 182; Ann. Phys. u. Chem., **121**, 236.

Spectre du thallium dans l'arc voltaïque.

Secchi (A.). Comptes Rendus, **77**, 178.

THULIUM.**Spectre de thulium.**

Clève (P. T.). *Comptes Rendus*, **89**, 478; **91**, 328.

Remarques sur le thulium.

Delafontaine. *Comptes Rendus*, **90**, 221.

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Thalén (R.). *Comptes Rendus*, **91**, 376-8; *Jour. Chem. Soc.*, **40**, 349-50 (Abs.); *Beiblätter*, **4**, 789 (Abs.).

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Thalén (R.). *Oefversigt af k. Vetensk. Acad. Förhand.*, **38**, No. 6, 18-21; *Jour. de Phys.*, (2) **2**, 35-40; *Chem. News*, **47**, 217 (Abs.); *Jour. Chem. Soc.*, **44**, 954 (Abs.).

TIN.**Tin arc spectrum; tin and zinc spark spectrum; tin chloride spectrum.**

Capron (J. R.). *Photographed Spectra*, London, 1877, p. 49, 76.

Bichlorure d'étain en solution, étincelle.

Lecoq de Boisbaudran (F.), Paris, 1874, p. 148, planche XXII.

Spectres d'étain et ses composés.

Salet (G.). *Comptes Rendus*, **73**, 862-3; *Jour. Chem. Soc.*, (2) **9**, 1147-9 (Abs.).

TITANIUM.**Spectre du bichlorure de titanium.**

Becquerel (H.). *Comptes Rendus*, **85**, 1227.

Titanium spark spectrum; titanium, aluminium, and palladium spark spectrum; titanium arc spectrum.

Capron (J. R.). *Photographed Spectra*, London, 1877, p. 47.

Spectre du titanium.

Troost et Hautefeuille. *Comptes Rendus*, **73**, 620; *Bull. Soc. chim. Paris*, n. s. **16**, 229.

Coincidence of the spectrum lines of iron, calcium, and titanium.

Williams (W. Matthieu). *Nature*, **8**, 46.



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VIOLET AND ULTRA-VIOLET.

Sur l'absorption des rayons ultra-violetts par quelques milieux.

Chardonnet (E. de). *Comptes Rendus*, **93**, 406.

Vision des radiations ultra-violettes.

Chardonnet (E. de). *Comptes Rendus*, **96**, 509-71; *Jour. de Phys.*, **12**, 219.

Sur l'absorption atmosphérique des radiations ultra-violettes.

Cornu (A.). *Jour. de Phys.*, **10**, 5-16.

Erklärung der ultra-violetten Strahlen des Spectrums.

Eisenlohr (W.). *Ann. Phys. u. Chem.*, **93**, 628.

Note upon certain photographs of the ultra-violet spectra of elementary bodies.

Hartley (W. N.). *Jour. Chem. Soc.*, **41**, 84-90; *Chem. News*, **43**, 289 (Abs.); *Beiblätter*, **5**, 659 (Abs.); **6**, 789 (Abs.).

Investigation by means of photography of the ultra violet spark spectra emitted by metallic elements and their combinations under varying conditions.

Hartley (W. N.). *Chem. News*, **48**, 195; note on the above by Wiedemann (E.), *Chem. News*, **49**, 117; *Jour. Chem. Soc.*, **46**, 801 (Abs.); *Beiblätter*, **8**, 581 (Abs.).

Visibility of the ultra-violet rays of the spectrum.

Herschel (A. S.). *Nature*, **16**, 22-8.

On the ultra-violet spectra of the elements.

Liveing (G. D.) and Dewar (J.). *Phil. Trans.*, **174**, 187-222; *Proc. Royal Soc.*, **34**, 122 (Abs.); *Beiblätter*, **6**, 934 (Abs.); **7**, 598, 849-56 (Abs.); *Jour. Chem. Soc.*, **44**, 262 (Abs.); *Proc. Royal Institution*, **10**, 245-52.

Notes on the absorption of ultra-violet rays by various substances.

Liveing (G. D.) and Dewar (J.). *Proc. Royal Soc.*, **35**, 71.

Détermination des longueurs d'onde des rayons lumineux et des rayons ultra-violetts.

Mascart. *Comptes Rendus*, **58**, 1111.

Visibilité des rayons ultra-violetts.

Mascart. *Comptes Rendus*, **68**, 402; *Ann. Phys. u. Chem.*, **137**, 163.

Spectres ultra-violets.

Mascart. *Comptes Rendus*, **69**, 387.

Sur les moyens propres à la reproduction photographique des spectres ultra-violets des gaz.

Monckhoven (van). *Bull. Acad. Belgique*, (2) **43**, 187-92; *Beiblätter*, **1**, 286 (Abs.).

Fluorescence and the violet end of a projected spectrum.

Morton (Henry). *Chem. News*, **27**, 33.

Photographie des durch ein Quarzprisma erhaltenen ultra-violetten Theils des Spectrums.

Müller (J.). *Ann. Phys. u. Chem.*, **109**, 151.

A comparison of the maps of the ultra-violet spectrum.

Pickering (E. C.). *Amer. Jour. Sci.*, (3) **32**, 223-6; *Beiblätter*, **11** (1887), 145 (Abs.).

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Rayleigh (Lord). *Phil. Mag.*, (5) **4**, 348-53; *Beiblätter*, **1**, 682 (Abs.).

Report on the ultra-violet spark spectra emitted by metallic elements.

Report of the British Association, 1882, p. 143, presented by Prof. Hartley; *Nature*, **26**, 458.

Nicht alle Quarzprismen verlängern das Spectrum am ultravioletten Ende.

Salm-Horst (Der Fürst zu). *Ann. Phys. u. Chem.*, **109**, 158.

Experimente über die Sichtbarkeit ultra-violetter Strahlen.

Sauer (L.). *Ann. Phys. u. Chem.*, **155**, 602.

Ueber ultra-violette Strahlen.

Schönn (J. L.). *Ann. Phys. u. Chem.*, n. F. **9**, 483-92; **10**, 148-8.

Der ultra-violette Theil des Spectrums lässt sich unmittelbar sichtbar machen.

Seculic (M.). *Ann. Phys. u. Chem.*, **146**, 157.

Recherches sur l'absorption des rayons ultra-violets par diverses substances.

Soret (J.). *Comptes Rendus*, **86**, 708, 1062-4; *Arch. de Genève*, (2) **63**, 89-112; (3) **4**, 261-92, 377-81; **10**, 429-94; *Beiblätter*, **2**, 410 (Abs.); **3**, 196 (Abs.); **5**, 124 (Abs.); *Jahresber. d. Chemie* (1873), 154.

Sur la transparence des milieux de l'œil pour les rayons ultra-violets.

Soret (J. L.). *Comptes Rendus*, **88**, 1012.

Spectres d'absorption ultra-violets des éthers azotiques et azoteux.

Soret (J. L.) et Rilliet (Alb. A.). *Comptes Rendus*, **89**, 747.

Sur la visibilité des rayons ultra-violets.

Soret (J. L.). *Comptes Rendus*, **97**, 814.

Sur l'absorption des rayons ultra-violets par les milieux de l'œil et par quelques autres substances.

Soret (J. L.). *Comptes Rendus*, **97**, 572, 642.

The Change of Refrangibility of Light. (Gives a drawing of the fixed lines in the solar spectrum in the extreme violet and in the invisible region beyond.)

Stokes (G. G.). *Phil. Trans. for 1852*, part II, 468.

Visibilité des rayons ultra-violets, à l'aide du parallépipède de dispersion.

Zenger (Ch. V.). *Comptes Rendus*, **98**, 1017.

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Langley (S. P.). *Amer. Jour. Sci.*, (8) **20**, 88-4; *Beiblätter*, **4**, 790 (Abs.).

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Studi spettrali sub colore delle acque, nota seconda.

Ricco (A.). *Mem. Spettr. ital.*, **8**, 1-10.

Ueber die Absorption des Lichts durch Wasser, etc.

Schönn (J. L.). *Ann. Phys. u. Chem., Ergänzungsband*, 1878, **8**, 670-5; *Jour. Chem. Soc.*, **34**, 693 (Abs.).

Observations relatives à une communication de M. Crocé-Spinelli sur les bandes de la vapeur d'eau dans le spectre solaire.

Secchi (A.). *Comptes Rendus*, **78**, 1080.

Sur la couleur de l'eau.

Soret (J. L.). *Arch. de Genève*, (8) **11**, 276-96; *Beiblätter*, **8**, 606 (Abs.); *Jour. de Phys.*, **13**, 427.

Spectre d'absorption de l'eau.

Soret (J. L.) et Sarasin (Ed.). *Comptes Rendus*, **98**, 624; *Amer. Jour. Sci.*, (8) **27**, 485.

Ueber die Absorption des Seewassers.

Vogel (H. W.). *Beiblätter*, **7**, 582.

WAVE-LENGTHS.

Wave-lengths of A, α and lines in the infra-red of the visible spectrum.

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