

**Phil. Mag. (London Edinburgh and Dublin Philosophical Magazine)**

**Series 1 (1798-1826)**

Halle PM 1799 **4** pp 59,163, 306 [part 12]

Girtanner transl of Sur l'analyse... PM 6 1800 152-3 216-7 335-354 [DSB V 411b]

Volta On the electricity excited by the mere contact of conducting substances of different kinds. PM 1800 **7** p288-311 [part13/cp/dsb/cp2/19th] Engl. translation {reprinting?} of importance, orig in phil trans 90 1800

Howard L On s periodical variation of the barometer.. PM 7 1800 355-363 [cart]

PM **9** 191 1801 [Mccollum340]

H Davy First lecture course at RI PM 9 281-2, 10 86-7 [Fullmer bibliog.] short

Volta PM 1802 **12** 161-4 [part114]

Leslie J. On capillary action PM **14** 1802 193-205 [dsb/barom p190]

H Davy. An account of a method for obtaining salts of iron PM 14 1803 373-4 [repro - fullmer bibliog.]

Bartholdi PM 1804 **18** 346 [part 317]

Gay-Lussac & Biot Account of an Aerostatic Voyage PM 19 1804 371 [ron]

Gay-Lussac LJ. Account of his last aerostatic ascent.. PM **20** 1804 83 [ron]

Rene J Haüy Observations on the Electricity of metallic substances PM **20** 1805 120 [ron]

PM **21** 1805 53-56 60 [Mccollum]

Gay-Lussac LJ. Account of an Aerostatic Voyage performed by M. Gay-Lussac ... PM **21** 1805 220 [ron]

Short account of the Life of the late Dr Priestley PM 22 1805 166 portrait [ron]

Gay-Lussac PM **23** 264 1806 [Mccollum287]

Grotthuss PM 1806 **25** pp330-9 [part25,27]

Vogel PM **26** 72 1806 [Mccollum]

H Davy The Bakerian Lecture on some chemical agencies PM **28** 1807 pp 3, 104, 220 [ron]

H Davy Experiments on the Alkalis, PM **29** 1808 372 [ron]

H. Davy Description of a new Eudiometer.. PM **31** 1808 3 [ron]

Thomson PM 1808 **31** 102, 244; 1808 **32**, 39 [part 158]

PM **31** 281 1808 [Mccollum98]

Hauy (crystallography translations) early 19 <sup>th</sup> C. [brock p. 210]
--

H Davy The Bakerian Lecture. On some new phenomena of chemical changes.. PM **32** 1808 pp 1, 101, 146 [ron]

H. Davy Electro-chemical researches on the decomposition of the Earths.. PM **32** 1808 193 [ron]

Gay-Lussac & Thenard Decomposition of the alkalis... PM 32 1809 88 [ron]

H Davy The Bakerian Lecture. An account of some new analytical researches for the nature of certain bodies.. PM 33 1809 479 [ron]

H Davy The Bakerian lecture for 1809. On some new Electro-Chemical researches.. PM 35 1801 401; 36, 17 & 85 [ron]

Moore On the penetration of balls.. PM 36 1810 325-334 {DSB 9 505a} rocketry  
H Davy Researches on the oxymuriatic acid, its nature.. PM 36 1810 352, 404 [ron]

Berthollet PM 37 63 1811 [Mccollum61]

Rene Haüy On the Electricity of Minerals PM 38 1811 p 81 [ron]

H Davy Elements of Chemical Philosophy PM 40 1812 145 [ron]

Berzelius PM 1813 41 3, 81, 197, 275, 334, 401; 1813 42, 40, 135, 171, 265, 371, 440, 1814 43 42, 88, 161, 245. [part154]  
Rumford PM 1813 41 285, 434; 1813 42, 296; 1814, 43, 64.  
Marcet. PM 41 1813 p 121-4 [Medical History vol. 13 1869 p. 365] use of silver nitrate in testing for arsenic

Thomson PM 1814 43 58 [part86]  
Ronalds Experiments on the Variable action of the Electric Column PM 43 1814 414 [ron p438]  
J. Murray lots in PM from vol 43 1814 p175 onwards – bundle. See ron

Chevreul Chemical inquiries into the nature of several fatty substances.. PM 44 29, 193 1814 [Mccollum39/cp/dochp] new fat called margarine  
Ronalds. On electricity PM 44 1814 442 [ron p438]

Ronalds On the Electric column of M. De Luc PM 45 466 1815 [ron p 438]  
Zamboni G. An instrument of his own construction, presented to the RS... attempt... at Perpetual motion PM 45 1815 67 [ron]  
A-M Ampere. Transl of paper in Ann chim PM 45 1815 41-43, 109-116, 188-193, 344-349 [msp]  
Thomas Forster Observations on a new system of phrenology... PM 45 1815 44-50 [Medical History vol 20 1876 p8] Gall & Spurzheim

H Davy. On the fire-damp of coal-mines, and on the methods of lighting the mines so as to prevent explosions. PM 46 1815 pp 444-458 [dav p 77] imp  
PM 46 17 1815 [Mccollum83]

Ampere Essay towards natural classification.. PM 1816 47 438 [class papes chem II]  
H Davy. On Carter's air-tight glove. PM 47 1816 pp. 49-50 [dav p 78]  
H Davy. An account of an invention – fire damp PM 47 1816 pp 67-8 [dav p 78] abstract of part only  
H Davy On aqua-regia, or.. PM 47 1816 pp 67-8 [dav p 79] abstr

E. Davy PM 1816 48 p465; 1817 49 p161, 173; 1817 50, p433 [part75]  
H Davy. An account of an invention – fire damp PM 48 1816 pp 24-7 [dav p 78] abstract of part only  
H Davy A few additional practical observations.. safety lamp PM 48 51-9, 197-200 [part64/dav p 79]

Dobereiner JW Extract of a letter from Professor Wurzer.. Phil. Mag 51 147 1818 [Mccollum23/dochb p200] ok

Brugnatelli PM **53** 321-326 1819 [Mccollum183]

Robert Hare A new theory of Galvanism.. PM **54** 1821 206 [ron]

Baden Powell – frequent contributor to Phil Mag in the 1820s & 1830s [dsb]

PM **56** 416-427 1820 [Mccollum114]

Ampere AM. Account of his discoveries on the attraction and repulsion of two conductors.. PM **56** 1820 308 [ron]

Oersted HC. Notice, headed 'Galvanic magnetism' ..PM 1820 **56** p. 394, 395, 1821 **57**, 40 [part70/ron]

Robert Hare. A Memoir on some new modifications of Galvanic apparatus.. PM **57** 1821 284 [ron]

H Davy On the Magnetic phenomena produced by electricity. PM **58** 1821 43 [ron]

H Davy Further researches on the Magnetic phenomena produced.. PM 58 1821 406 [ron]

E Davy PM 1821 **58** 241 [part75]

Davy E PM **59** 208-210 1822 [mccollum39]

Troughton An account of the repeating circle.. PM 1822 [repro ?] dsb

Arago DFJ On earthquakes and Magnetism... PM **59** 1822 233 [ron]

H Davy Preservation from lightning PM **59** 1822 468 [ron]

Oersted, HC On Zamboni's discovery concerning the Electricity.. PM 59 1822 462 [ron]

PM Roget. On the Functions of Progressive Motion in Vertebrated animals. PM 59 1822 389-92 [roget biog book p 343]

PM Roget. On respiration. PM 59 1822 pp 305-8 [roget biog book]

H Davy On the Electrical phenomena exhibited in vacuo PM **60** 1822 179 [ron]

David Thomson On the velocity of the waves of the sea PM **61** 1823 405-7 [sea p 302]

Arago DFJ. Narrative of Freycinet's Voyage. PM **61** 1823 134 [ron]

W Herapath. Experiments on Oil and Coal Gas. PM **61** 1823 424-31 [soc 202]

Robert Hare. Description of an electrical plate machine.. PM **62** 1823 8 [ron]

Robert Hare An Essay on the question, Whether there be two Electrical fluids.. PM 62 1823 3 [ron]

H Meikle PM 62 1823 pp 214-8 [barom p 385]

F. Baily On Mr Babbage's New Machine for Calculating ... Phil. Mag **63**, pp. 355-367, May 1824. [randellp438/cor p. 77]

Gregory An account of some experiments made in order to determine the velocity with which sound.. PM **63** 1824 401-415 [dsb]

J. Murray lots in PM from vol 63 1824 p130 & previous – bundle. See ron

Davy on Brinkley PM **64** 1824 459-462 [dsb II 469b]

J Ivory. On the method of least squares. PM **65** 1825 3-10 [term 'Method of Least Squares' – enu]

PM **65** 1825 p 167 [term 'weight' introduced – enu]

John Lindley Some account of the spherical and numerical system of nature.. PM **68** 1826 81-91 [reh p205]

## **Series 2 (1827-1832)**

H Davy The Bakerian Lecture. On the relations of Electrical and chemical changes. PM 1 1827 31, 94, 190 [ron]

New metals in the Uralian Platina PM 2 391 1827 [weeks p193; part 499]

Prout PM 2 144 1827; 3 33,107 1828 [Mccollum98]

Hodgkin & Lister JJ Notice of some microscopic observations.. PM 2 1827 130-8

[DSB/Medical History vol 21 1977 p. 188/cytop26/np p 140/clin p 167]

]

H Lloyd On the phenomena presented by light.. PM 2 1833 112-120, 207-210 [dsb]

AA De La Rive. PM 3 1828 151 [ron] not imp, bundle with others in Pm

PM Roget On an apparent violation of the law of continuity. PM 3 1828 118-21, 203-6 [roget biog book]

Robert Brown. Active molecules. Phil. Mag. Vol. 4, Sept. 1828, pp. 161-173. [part744. Rootenberg at \$2500]

JJ Berzelius. PM 1828 4 450 [class papes chem II]

Del Rio. Analysis of two new mineral substances.. PM 4 113-5 1828.

G Lowe. Remarks on a Article.. gas illumination PM 4 1820 37-46 [soc p 150]

T Thomson PM 1829 5 217 [class papes chem II]

Addams, R An account of a peculiar optical phaenomenon seen.. PM 1834 373-4 [wade] not vol 5

Robert Brown. Additional Remarks on Active Molecules. Phil. Mag vol 6, September 1829, pp. 161-166. [part744/ABE at \$850 Q cat 1232 at £1600]

Robert Hare On the construction and applications of the improved sliding-rod eudiometer.. PM 6 1829 171 [ron]

Daubeny PM 1829 6 235 [part 97]

H Davy Account of some experiments on the Torpedo PM 6 1829 81 [ron]

Witham Vegetation of the first period of an ancient world PM 7 1830 28-9 [dsb]

PM Roget Observations of Dr Roget in reply to Mr Babbage. PM June 1830 [roget biog book p 346]

Robert Brown PM 1830 8 296 [see also 1828 1829] part744

Witham On the vegetable fossils PM 8 1830 16-21 [dsb]

AA De La Rive. PM 8 1830 298 [ron] not imp, bundle with others in Pm

Oersted HC. Detection of Alloy in Silver by the Magnetic Needle PM 8 1830 230 [ron]

JW Lubbock On the Tides on the Coast of Great Britain PM 9 1831 333-335 [dsb]

Prideaux PM 1831 10 104 [part159] not imp

### **Series 3 (1832-1850)**

E Turner On some atomic weights PM 1832 1 109-112 [class papes chem II]

Brewster On the undulations excited in the retina.. PM 1 1832 169-174 [wade]

Necker LA Observations on some remarkable phenomena seen in Switzerland.. PM 1 1832 329-337 [wade]

M. Faraday. On the Planariae PM 1 1832 299

M. Faraday. On the first two parts of his recent researches in electricity: PM 1 1832 300-1

M. Faraday. On the explanation of Arago's phenomena of moving metals.. PM 1 1832 462

M. Faraday. Terrestrial magneto-electric induction PM 1 1832 465-6

M. Faraday. Crispations of fluids PM 1 1832 74  
M. Faraday. On Mordan's apparatus for manufacturing Bramah's locks. PM 1 1832 75

Daniell PM 1833 2 57-60 [part128]  
Brewster Observations of the Absorption.. PM 2 1833 360-363 [dsb]  
Graham T On the law of the diffusion of gases PM 2 1833 175, 269, 351 [dsb/tim]  
M. Faraday. On the identity of electricity derived from different sources PM 2 1833 312  
M. Faraday. On the practical prevention of dry rot in timber (RI lecture in PM) PM 2 1833 313-4  
M. Faraday. Address delivered at the commemoration of the centenary of the birth of Dr Priestley PM 2 1833 390-1  
M. Faraday. Notice of a means of preparing the organs of respiration.. PM 2 1833 241-4  
WHF Talbot. Remarks on chemical changes of colour PM 2 1833 359-60, 452 [rs papers]

Walker On the cause of the direction of continents.. PM 3 1833 426-431 [dsb]  
WHF Talbot Proposed method of ascertaining the greatest depth.. PM 3 1833 p 81-82 [sea p302/rs papers]  
WHF Talbot. On a method of obtaining homogenous light.. PM 3 1833 35 [biog file & rs papers]

Talbot Facts relating to Optical Science PM 4 112-114 1834 [weeks 297/chem. P 106] IMP – analytical spectroscopy origin  
Brewster On the influence of successive impulses of light upon the retina.. PM 4 1834 241-5 [wade]  
Horner WG On the properties of the Daedalum, PM 4 1834 36-41 [wade]  
Horner WG On the autoptic spectrum.. PM 4 1834 262-271 [wade]

Henry PM 1834 5 33, 132, 321-334 [part221/par 300]  
Talbot, HF Experiments on light PM 5 1834 321-334 [wade/rs paper/biog file]  
M Faraday On the magneto-electric spark.. PM 5 1834 349-54 [ron]  
M Faraday On the influence of induction.. PM 5 1834 349, 444-45 [ron]

James Forbes On the refraction and polarization of heat. PM 6 1835 134-42, 205-14, 366-71 [19<sup>th</sup>]  
Henry PM 1835 6 354 [part 111]

Roderick Murchison. On the Silurian System of rocks. Phil. Mag 3rd series, vol. 7, no. 37, july 1835 (Davis p. xix)  
Faraday PM 1835 7 337 [part116]  
WHF Talbot. On the nature of light PM 7 1835 113-8 [rs paper/biog file]

Talbot PM 1836 p. 288 [dsb] ok

Brewster Observations on the lines of the Solar Spectrum PM 8, 384-92, 1836 [weeks 297]  
Faraday PM 1836 8 521 [part107]

Charles Darwin. Geological notes..PM 1836 as per freeman 3 – HRoot sold @ \$650

Schonbein, Faraday PM 1836 9 53, 57, 122 [part112, ron]  
Knox & Knox On Fluorine. PM 9 107-9, 1836; vol. 16 192-4 1840 [weeks p371]

C Wheatstone On the thermo-electric spark PM 10 1837 [ron]

HW Dove On the influence of the rotation of the Earth on the Currents of its atmosphere PM 11 1837 227-239, 353-363 [rot] transl. from pogg Ann not got

Berzelius PM 1838 **12** 135 [part151]  
 Schonbein PM 1838 **12** 225, 311-17 [part 139/DSB 12 199a]  
 Andrews PM 1838 **12** p.305 [part112]  
 WH Fox Talbot On a new property of nitre PM 12 1838 145-148, 258-259 [rs papers/boni p 259]

Waldie PM 1838 **13** p86 [part69]

Latanium, a New Metal. PM **14** 390-1 1839 (also in Pogg Annalen) [weeks 346]  
 WR Grove Invention of the fuel cell. Reported Phil. Mag **14** p388-390. 1839 (Davis p.x/part 686/dsb)  
 Grove PM 1839 **14**, 127-130 ;1842, **21**, 417: 1844, **24**, 268, 346, 422 [part686/dsb/disc file]  
 Murchison & Sedgwick. Classification of the older rocks.. PM **14** 1839 242-260 [DSB 9 585]  
 Cooper PM **14** 1840 35-7 [part 687]  
 Smee 1840 **14** 315; 1845, 26, 177 [part687]  
 Coathupe CT PM **14** 401 1839 [Mccollum133]  
 Plateau J. Answer to the objections published against a general theory (visual).. PM **14** 1839 330-340, 439-446 [wade]  
 W Fox Talbot Some account of the art of photogenic drawing.. RS repro PM **14** 19-21, 196-211 may 1839 [ger559/biog file/barom p 318]  
 Herschel, JFW. PM 14 1839 p365 [ger 560]

Grove WR On the inaction of Amalgamated Zinc.. PM 15 1839 81 [ron]  
 Notice respecting Lantium.. Phil. Mag **15**, 286-7, 1839 [weeks 347]  
 Grove, WR On a small Voltaic Battery of great energy: some observations.. 1839 **15** 287-93 [part686/dsb/ron/par p310]  
 G. Schweitzer Analysis of sea-water as it exists in the English Channel.. PM 15 1839 51-60 [sea p303]  
 Fownes On the equivalence of carbon PM **15** 1839 62-5[dsb]

Dumas. PM 1840 **16** 322, 422, 501,; 1840, **17**, 179 [part 365]  
 JW Draper. On the process of Daguerrotype.. PM 14 Sept 1840 [ger p561]  
 Grove WR On some Phenomena of the Voltaic disruptive discharge PM **16** 1840 478 [ron]  
 Phil. Mag, **1840-3** Helmholtz (PM323)  
 PM Roget Description of a Method of Moving the Knight over Every Square of the Chess-Board Without Going Twice over any one... PM **16** 1840 p. 305-9  
 JJ Sylvester maths PM **16** 1840 p37-43 [caj p 91]

Joule On the production of heat by voltaic electricity Phil. Mag, **18** 1841, vol April p 308-9 [q cat 1232 p27/part 689]

Joule On the heat evolved by metallic conductors.. Phil. Mag, **19** 1841, October. p 260-77 [q cat 1232 p27/part668, 689/19thp208]  
 Darwin p. 257-260 [F1659]  
 Draper PM 1841 **19** 195-210 [part717]  
 W Fox Talbot PM **19** 1841 88-92, 164 [ger 559/563/rs paper]  
 Grove WR On some Electro-Nitrogurets PM **19** 1841 p97 [ron]  
 Hare R. On the theory of storms.. PM **19** 1841 423-32 [met p. 238] see also vol 23, 25

Joule PM 1842 **20** 98-113 [part 690]  
 Grove WR On a gaseous voltaic battery **20** 1842 294-304; **21** 1842 333-335 421-422; **22** 1843 32-35 [dsb]

Phil. Mag, 1842, Vol. **21**, Sept., pp. 180-188. [F1660]  
 Grove Phil. Mag, 1842, Vol. **21** 417-420 [dsb]

Faraday PM 1843 **22** 200 [part 102]  
Joule PM 1843 **22** 204-8 [part690]  
Arrott PM 1843 **22** 427 [part 697]  
JFW Herschel On the action of rays of the solar spectrum on the daguerrotype plate . PM Feb 1843 [ger562]  
WHF Talbot. On the coloured rings produced by iodine on silver.. PM 22 1843 94-7, 297-8 [rs papers/boni p 259]

Babbage Statement of the Circumstances attending the Invention and construction of Mr Babbages's calculating engines PM **23** 1843 234-5  
Anon. Addition to the Memoir of M. Menabrea...Phil. Mag., **23**, no. 151, pp. 235-239 Sept. 1843 [randellp534/q cat1232 p1 at £400/oc62]  
Mosander On the new metals Lanthanium. PM 1843 **23** p241-54 [part149/weeks 347/DSB 9 541]  
Draper 1843 **23** 401-15 [part720, 723] – tool/proof of law  
Draper 1843 **23** p 161; 1844, 25, 169 [part728]  
Playfair L PM **23** 281 1843 [mccollum40]  
Thompson. Note on Beccari of Bologna. PM **23** 321-326 [Mccollum60]  
Joule On the caloric effects of magneto-electricity PM **23** 1843 152-4 263-76, 347-55, 435-43 [19<sup>th</sup> p208/ron/may p 405] BAAS Cork  
R Hare. Objections to Mr Redfield's Theory of Storms.. PM **23** 1843 92-106 [met p 238] also vols 19, 25

Michael Faraday. A speculation touching Electrical Conduction and the Nature of Matter. Phil. Mag., 1844, vol. **24**, pp. 136-144. [mills&boon/part102/disc file-andrade/\$1350 on internet, see pricing file]  
JFW Herschel. Observations on the entrance passages of the pyramids. Phil. Mag, 1844, **24**, 481 [campbell&smelliep74]  
Crum On the manner in which cotton.. PM **24** 1844 241-246 [dsb]

WR Hamilton. (on quaternions) Phil. Mag 1844 [smith]

Joule PM 1844 **25** p334 [part202]  
Draper 1844 **25**, 1-10 [part721]  
Thomson T PM **25** 321-26 1843 [Mccollum60]  
Vauquelin & Fourcroy PM **25** 176-182 [Mccollum60]  
Brewster Observations on colour-blindness, PM **25** 1844 134-141 [wade]  
R Hare Strictures on Prof. Dove's Essay on Storms PM 25 1844 94-102 [met p 238] + vols 19,23

JP Joule. On the changes of temperature produced by the rarefaction... Phil. Mag.,3rd series, vol. **26**, no. 174, may 1845, pp. 369-83 [part 77/19thp209/ may p 405]  
Faraday & Lyell Copy of the Report.. PM **26** 1845 pp. 16-35. [part66/soc p 178]  
Draper PM 1845 **26** 465-78 [part717, 720]; 1851 I, 368 [law]  
Thomson RD PM **26** 1845 322-6

Claus On the New Metal Ruthenium PM **27** 230-1 1845 [weeksp199; part 499] see also vol. 29  
Draper PM 1845 **27** 327-46; 1857, **14**, 321-3 [part720, 722]  
Schonbein On the Nature of Ozone PM **27** 1845 386-389 (DSB 12 199b)  
Grove pm **27** 1845 442-6 [dsb] earliest lamp  
JP Joule. On the Existence of an Equivalent Relation between Heat...Phil. Mag **27** 1845, pp. 205-7 (see Davis p. 355/may 405)

Grove WR On Grothus's theory of molecular decomposition.. PM Nov 1845 [ron]

Faraday Thoughts on Ray-vibrations Phil. Mag, 1846. Vol. **28**, no. 188, p. 345-350 [Davis/Q cat 1232 p 18 number at £1000/19thp193/soc p. 160]

Daniell PM 1846 **28** p. 409 [part128]  
[Ronalds]Collen. Application of the Photographic Camera to Meteorological Registration PM **28** 1846 p73[ron p438]  
Scoresby W & Joule JP Experiments and observations on the mechanical powers of electro-magnetism, steam and horses. PM **28** 1846 p448 [ron]  
E Sabine On the cause of remarkably mild winters PM 28 1846 317-324 [par 329]

Waller PM November 1846 x2, July & August 1846, March 1847 [dsb]

Claus PM 1846 **29** 556 [part499 see also vol 27. disc. of ruthenium]  
Horsford PM **29** 365-397 1846 [Mccollum99,155,184]  
WR Hamilton PM **29** 1846 27 [term 'tensor' - enu]

Crum On a method for the analysis.. PM 1837 **30** 426 [part196/dsb]  
Liebig J Pm **30** 412 1847 [mccollum341]

Schonbein PM 1847 **31** 7-12 [part 195]  
Grove PM 31 1847 **31** 20, 91, 96 [part 494, repro of phil trans]  
Joule. On the Mechanical equivalent of Heat.. PM **31** sept 1847 pp 173-6 [\$750 m thompson for number; see pricing file/may p405]  
Loomis, Elias. On the determination of differences of longitude made in the US.. PM 31 1847 338-40 [met p 240]

JP Joule. On the Theoretical Velocity of Sound. Phil. Mag. **1847**, pp. 114- (Davis p. 355) JP  
Joule. On the Mechanical Equivalent of Heat. Phil. Mag., **1847**, pp. 173- (Davis p. 356)  
not vol 33

Knapp F PM **32** 456 1848 [Mccollum155]

JP Joule. On shooting stars. Phil. Mag., **1848**, pp. 349 (Davis p. 356)  
JP Joule Some remarks on heat and the constitution of elastic fluids PM 1848 211 [19<sup>th</sup> p209]

W. Thomson. On an Absolute Thermometric Scale founded on Carnot's Theory. Phil. Mag. Series 3, Vol. **33**, no. 222, p313-7 Oct. 1848 [Davis but Camb. Phil. Soc/cp/therm p 113,114]  
Brodie PM **33** 217 1848 [Mccollum 39]  
Kirkman On pluquaterions.. PM **33** 1848 447-459, 494-509 [dsb]  
TAB Spratt On the influence of temperature upon the distribution of the fauna.. PM **33** 1848 169-174

Draper JW Continuous spectra 'just before mid-century' [brockp210]

Fresenius R PM **35** 127 1849 [Mccollum155]

Wohler Note sur le Titane. Phil. Mag **36** 67-8 1850 [weeks247]  
Tyndall & Knoblauch On the deportment of crystalline bodies.. PM March 1850 [ron]

JJ Sylvester. Additions to the articles On a new class of theorems.. PM 1850 pp 363-370 [term 'matrix' - enu]

Williamson PM 1850 **37** 350-6 [part580, 672/Leicester211]  
W Thomson On a remarkable property of steam connected with.. PM 37 1850 123-7? 386-389 [dsb 13 p387/19<sup>th</sup> p212/parp334] same as Pogg Ann 81 1850

#### **Series 4 (1851-1875)**

Tyndall's first paper in PM in 1851 [dsb]



L Foucault. Physical demonstration of the earth's motion of rotation, by means of the pendulum. Phil. Mag., 1851, **1** [davis112-imp - 1<sup>st</sup> English, orig. Comptes Rendus] Draper PM 1851 **1**, 81-100 [part 716]  
Boole. On the theory of probabilities.. Phil. Mag, June 1851, Fourth Series Vol **1**, no. 7, pp. 521-30 [q2-13/q12 qp10/19cp8 at \$1950]  
Sylvester PM **1** 1851 April p 295-305 [mer2 p683/caj p 96]  
WF Donkin On certain questions relating to the theory of probabilities. PM **1** 1851 353-68 [term Posterior Probability' - enu]

Thomson W On the theory of Magnetic Induction in Crystalline.. PM March 1851 **2** 429-44 [part691/ron]  
W Thomson (Kelvin) Applications of the Principle of Mechanical Effect to the Measurement of Electro-Motive Forces.. Phil. Mag, Dec 1851, [wilsop124/ron]  
W Thomson On the mechanical Theory of Electrolysis PM Dec 1851 [ron/?Wilson p124]  
JP Joule Account of Experiments demonstrating a limit to the magnetizability of iron. PM for Oct & Dec 1851 [ron]  
J Tyndall On the Laws of magnetism PM April 1851 [ron]  
J Tyndall On diamagnetism and magne-crystallic action PM Sept 1851 [ron]

R Clausius. On the moving force of heat, and the laws... Phil. Mag, vol. **2**, no. 8, July 1851 p 1-21, 102-19 [Davis/19<sup>th</sup> p225] - Engl. version of PA vol 79 1850. second law of thermodynamics in complete form for the first time. Clausius' most famous paper.  
Rankine WJM. On the Centrifugal Theory of Elasticity, as applied to gases and vapours. PM vol **2** 1851 p 509 [yeh]

JP Joule Account of Experiments with a powerful electro-magnet PM Jan 1852 [ron]  
JP Joule & W. Thomson. On the Thermal Effects experienced by Air rushing through small apertures. Phil. Mag., 1852 **3** no. 28, Suppl. 4, pp. 481- 1852 [Davis/part690]  
W Thomson On an absolute thermometric scale, founded on Carnot's theory.. PM **3** 1848 313-7 [19<sup>th</sup> p209]  
WHF Talbot PM **3** 1852 73-77 [rs papers/boni p259]  
W Herapath. On the optical properties + quinine PM **3** 1852 161-173; **4** 1852 186-192; **6** 1853 171-5, 284-9, 346-51 [dsb]  
Elliot PM **3** June 1852 [ger568]

W. Thomson. On the Dynamical Theory of Heat with numerous results Phil. Mag, 1852, **4** p.8-21, 105-117, 168-176, 424-34. [Davis] [part 614 - iv, 304; 1853; v, 102] - Kelvin's principle of dissipation of energy / second law of thermodynamics and absolute temp scale [cp/mer2 p139/par p338] reprint, ok... (first of long series, 8 parts published 1852-56) also vol. 9 & 11  
W Thomson On a universal tendency in nature for the dissipation of energy PM **4** 1852 304 [19<sup>th</sup> p212]  
Lawes & Gilbert PM ?**4** 32-64 ?1854 [Mccollum61] clash  
Helmholtz H On Sir David Brewster's new analysis.. PM **4** 1852 401-416 [wade/leo]  
Helmholtz H On the methods of measuring very small intervals of time.. PM **4** 1850 [leo]  
H Helmholtz Theory of compound colours PM **4** 1852 519 [leo] pogg ann original vol 87 imp  
WR Grove On the Electro-chemical Polarity of Gases PM **4** 1852 suppl. p 498 [ron]  
W Herapath. On the optical properties + quinine PM **3** 1852 161-173; **4** 1852 186-192; **6** 1853 171-5, 284-9, 346-51 [dsb]  
De Morgan A On the early history of Infinitesimals in England. PM **4** 1852 321-30 [see Boyer The History of the Calculus yellow pb p317]

Thomson W On the mutual attraction or repulsion between two electrified spherical.. PM April & Aug 1853 [ron]  
Thomson. On transient electric currents Phil. Mag., 1853, p. 393- [wilsop152; obitpxxxvii/ron]  
WR Grove On some anomalous cases of Electrical decomposition PM March 1853 [ron]

JH Gladstone On the relations between the atomic weights pm 1853 5 313-20 [class paper  
chem II/part885/dsb/spron p 96/msp]  
M Faraday On the physical character of the lines of force PM 5 1852 401 [19<sup>th</sup>/mer 2 p69]  
Rankine PM 1853 5 106 [part612]

Kelvin PM June 1853 [fess]

M Faraday On subterranean Electro-Telegraphic Wires PM 7 1854 [ron]  
WR Grove On the Electricity of the Blow-pipe flame PM 7 Jan 1854 [ron]  
Cayley A. On the theory of groups... PM 7 1854 p 40-47 49. [First article on group theory –  
terms 'Cayley's Theorem, Group, Group Theory' – enu]

Lawes & Gilbert PM 7 32-64 ?1854 [Mccollum61] not vol 8

Faraday. On the uniform motion of heat in homogeneous solid bodies.. PM 1854 reprint of  
Camb. Math J. 1842 [mer 2 p71] not vol 8

Spiller & Crookes PM 8 1854 111- [ger571]  
Braun A PM 8 156 1854 [Mccollum401]  
Boole, G Further observations relating to the theory of probabilities PM 8 1854 pp175-6 [ABE  
at \$950]

Angstrom Optiska undersokmajor (most imp spectral publication) PM 9 1855 327-342  
(Swedish Men of Science/dsb)  
W Thomson. PM 9 1855 p 523-31 [see par 338 & vols 4 & 11]

Garcia MPR Observations on the human voice PM 10 1855 18-26 [GM 3329 citing original in  
Proc Roy Soc] norman at \$750!  
Phil. Mag, 1855, Vol. 10, Aug., pp. 96-98. [F1681]  
Faraday PM 1855 10 98-107 [part 125]  
Schunk 1855, 10, 73: 1857, 14, 288 (indigo in urine):1858, 15, 29, 117, 183 [part 400]

Clausius On the discovery of the True form of carnot's function PM 11 1856 388-390 [dsb 3]av  
Schonbein On ozone and ozonic actions in mushrooms PM 11 1856 137 [dochb]  
Samuel Haughton On the solar and lunar diurnal tides of the coasts.. PM 11 1856 pp 47-64,  
262-272, 428-433 [sea p301]  
J Tyndall On the Relation of Diamagnetic Polarity.. PM Feb 1856 [ron]  
W Thomson. On heat stuff. PM 11 1856 214-225, 281-297, 379-338, 433-446 [par 338] see also  
vols 4,9.  
H. Helmholtz. On the interaction of natural forces. PM 11 1856 489-518 [rs papers/mel p 242]  
Crookes & Spiller On methods of preserving sensitiveness of collodion plates. PM 11 1856  
334-9 [dsb, rs papers]

Clausius, R. On a modified form of the second fundamental law.. PM 12 1856 81-98 [19<sup>th</sup> p210]  
transl of PA 125 1865 OR IS THIS 1865?

Matthiessen On the electric conducting power.. PM 13 1857 81-90 [DSB 9 178a]  
Odling On the natural groupings of the elements PM 1857 13 423, 480 [part885/spron96]  
M Faraday On the conservation of force. PM 13 1857 225-39 [19<sup>th</sup> p214/yeh] also in PRS 1857?

Meyer PM 1857 14 263 [part 890]  
Joule Phil. Mag, Sept. 1857, Vol. 14, No. 92, pp. 211-16 [q55/47: part 492 – see which for others  
to bundle/mer1 p433]  
Jevons On the Cirrus Form of Cloud, PM 14 1857 22-35 [dsb]1<sup>st</sup> paper  
R Clausius The kind of motion called heat PM 14 1857 108-127 [19<sup>th</sup> p225] – engl transl of pa  
100 1857 imp

WS Jevons. On the Forms of Clouds. Phil. Mag, Series 4, Vol. **15**, Apr. 1858, pp. 241-255.  
Bunsen PM 1858 **15** p489-512 [part289] av  
Clausius 1858 **15** 94 [part 672] av

W. Thomson. Phil. Mag 1858, vol. 33 (??16), pp. 313- [wilsop37] [not 16+313, but 16 series 4 is 1858]

Cartmell PM 1858 **16** p328 [part292]

Plucker J On the Action of the Magnet upon the Electrical Discharge in Rarefied Gases. PM **16** 1858 pp119-35 [Harre - Great Scientific experiments p180]

Odling 1858 **16** 37 (tog with RI offprint?) [part 461, 464/spron p145] also vols 26 & 27

Grove On the striae pm **16** 1858 18-22

Couper On a New Chemical Theory PM **16** 1858 104-116 [dsb/par p 350] - tog with Kekule AC 106/or ac 110 p 46

H. Helmholtz Das Telestereoskop. PM 15 1858 19-24 [leo] repro of pa vols 101, 102

J.J. Waterston. Gas molecule activity (later republished) Phil. Mag., **1858** [crowther]

WS Jevons. On the Semidiurnal Oscillation of the Barometer. Phil. Mag., Series 4, Vol. **17**, May 1859, pp. 313-323.

Lawes & Gilbert PM **17** 145 1859 [Mccollum114]

Clausius PM **17** 1859 81-91 [dsb 8 511a/19thp204] Engl. transl of Pogg Ann 105 1858 - put together?

Michael Faraday On the conservation of force PM **17** 1859 166 [19<sup>th</sup> ]

Odling 1859 **18** 369 [part464, tog with RI lecture?]

Smith On the immediate source of carbon.. PM **18** 1859 429-436 (DSB 12 467)

Cayley On contour and slope lines PM **18** 1859 264-268 [artificial vision of topology, disc file III]

Maxwell JC. Illustrations of the dynamical theory of gases PM **19** 1860 19-32; **20** 1860 21-37 [part592/dsb 8 511a/19thp204,225]

Clausius PM **19** 1860 434-6 [dsb 8 511a]

Waterston On certain inductions with respect to the heat.. PM **19** 1860 338-343 [dsb]

H. Helmholtz. Die Klangfarbe der Vocale (On the quality of vocal sounds) PM **19** 1860 81-88 [leo]

Grove PM **20** 1860 p126 [part686]

David Forbes. On Darwinite, a new mineral species from Chile PM **20** 1860 [Rootenb. sold copy at \$300]

Stokes' translation of Kirchoff's first paper PM March 1860 [mer1 p278]

Kirchhoff. Letter from Professor Kirchoff on the chemical... Phil. Mag. **21** 1861 185- [davis p113]

Kirchhoff. On a New Proposition in the Theory of Heat. Phil. Mag, **21** 1861 no. 140, pp.241-. [davis p112]

JC Maxwell. On Physical Lines of Force. Phil. Mag, March 1861, Fourth series, Vol. **21**, pp. [161-] 175, 281-91, 338-48; 22 1862 12-24, 85-95. [davis p. 192q2-70;qp50/19thp199] first parts - see vol 22, 23 for rest. [quaritch cat 1236 at \$4000]

H. Helmholtz. On the motion of the strings of a violin. PM **21** 1861 393-6 [leo p. 196]

A Cayley. Note on Mr. Jerrard's Researcheson the Equation.. PM 1861 [term 'Extraneous Root' - enu]

W Siemens. Pyrometer work, Jan 1861 PM letter to Tyndall [biog in biog file]; paper to RS 10 year later

Kirchoff 1860's Radiation & Spectroscopy. [brock p210]

WS Jevons. On the Deficiency of Rain in an elevated Rain-gauge as caused by Wind. Phil. Mag., Series 4, Vol. **22**, Dec. 1861, pp. 421-433.

JC Maxwell On Physical Lines of Force PM **22** 1862 12-24, 85-95 [19<sup>th</sup> p199/mer2 p82] see also vol 21, 23

H Lloyd On earth currents and their connection with.. PM **22** 1861 437-442 [dsb]

F Galton Meteorological charts. PM **22** 1861 34-5 [forrest]

Maxwell On the physical lines of force Phil Mag. Feb 1862, Vol **23**, pp. 12-24, 85-95 [q2-70;qp50/mer2 p85] see also vol 21, 22

R Clausius. On the conduction of heat by gases PM **23** 1862 417-35, 512-34 [19<sup>th</sup> p227]

A Angstrom PM **23** 1862 1-11 [par 360] repro, hydrogen in sun poggend too

Mayer, JR. Remarks on the forces of Inorganic nature Phil. Mag., 1862, Vol. **24**, no. 162, pp. 123 & 371-7 [q cat 1232 p31, number at £1200!/mer2 p109] Engl. transl of work in Ann Chem, 42 1842. imp

Angstrom On the Fraunhofer lines visible PM **24** 1862 1-11 [dsb]

Andrew Ramsay The Excavation of the Valleys of the Alps PM **24** 1862 377-380 [par 361/dsb] see also vol 28

Hunter PM 1863, **25**, 364; 1865, **29**, 116 [part740]

Angstrom A new method of determining.. PM **25** 130-143 1863 [disc file/dsb I 167a]

Ellis Account of some experiments.. PM **25** 1863 325-331 [DSB IV 354b]

Kelvin, W Lord Thomson On the secular cooling of the earth PM **25** 1863 1-14 [thi p369/mel p242]

Roscoe H. On the existence of a crystallisable carbon compound .. in meteorite. PM **25** 1863 319-320 [et 449]

John Tyndall On radiation through the Earth's atmosphere PM **25** 1863 200-6. [par 363] greenhouse effect - see also RI lecture 1863

JJ Sylvester 'On the center of Gravity of a Truncated triangular pyramid.. Phil. Mag **26**, 1863, pp. 167-183 [smith]

Odling PM **26** 1863 380 [spron 145] also vols 16 and 27

Leconte On the adequacy of Laplace's explanation.. PM **27** 1864 1-32 [dsb8]

T. Graham. Speculative Ideas respecting the Constitution of Matter. Phil. Mag., 1864, 4<sup>th</sup> series, vol. **27**, pp. 81-4. [part270]

Maxwell. Reciprocal frames. Phil Mag. **27** 1864 27, p. 250 & p. 258 [davis p. 195obitpxv/Andrew Hunter cat 2 offprint at £750]

Gassiot PM **27** 1864 143-4 [dsb]

Colding. On the History of the Principle of the conservation of energy PM **27** 1864 56-64 [dsb XV p87/mer2 p125/yeh]

Odling pm **27** 1864 119 [spron p 145] also vols 26 and 16

Croll On the physical cause of the change of climate.. PM **28** Aug 1864 121-137 [dsb/par 364/thi p357]

Draper On the photographic use .. PM **28** 1864 249-255 [DSB IV 181b]

Akin report on work of Mohr. PM Nov 1864 vol **28** p 474 [mer2 p107]

AC Ramsay On the Erosion of Valleys PM **28** 1864 293-311 [dsb]

Alfred Nobel. Results - nitroglycerine.. PM **30** 1865 236-8 [rs papers] imp - the report (orig in Comptes Rendus)

A Bird PM **30** 1865 p 349-55 [barom p369]

W Holtz On an electric induction machine. PM 30 1865 159-160, 425-433 (transl of PA) [Holtz machine descry - see Disc file II - electrostatic Machines]

Fick & Wislicenus On the origin of muscular power PM 31 1866 159, 485-503  
[part315/Mccollum133/dsb 14 455b]

Waterston Note of an experiment on voltaic conduction PM 31 1866 83-4 [dsb]

Elie de Beaumont Researches on some of the revolutions on the surface.. PM 10 1831 241-64  
[thi p360]

R. Bunsen. Flame reactions. Phil. Mag., series 4 1866, 32, no. 214, pp. 81- [davis p113/part291]

Frankland 1866 32 182-99 [part315/Mccollum133,155] see also RI lecture?

Lawes & Gilbert On the sources of fat of the animal body PM 32 55-64/439? 1866  
[Mccollum133/dochp p389]

R Clausius. On the Determination of the Energy and Entropy of a Body. Phil. Mag, Series 4,  
vol. 32, no. 213 July 1866, p.1- [Davis p13]

Galton. On the conversion of wind charts into passage charts Phil. Mag. 32, 1866, pp. 354-9  
[forrp323]

JC Maxwell On the dynamical theory of gases PM 32 1866 390-3; 35 1868 129-45, 185-217 [19<sup>th</sup>  
p225]

H. Helmholtz. Sur le regel de la glace. PM 32 1866 22-3 [rs paper/leo p 228]

James Croll On the eccentricity of the earth's orbit, and its physical relations to the glacial  
epoch. PM 33 1867 119-131 216[sea p331/thi p357/par 368]

Croll J. On the change in the obliquity of the ecliptic.. PM 33 1867 426-45 [thi p 357]

A. Angstrom PM 33 1867 76-8 [par 370]

H. Helmholtz. On integrals of the hydrodynamical equations.. PM 33 1867 485-512 [rs  
papers/Buchwald: From Maxwell to microphysics. Blue pb p 325]

De la Rive. M Faraday life & works PM 34 1867 409-37 [soc p 157]

Roscoe. On vanadium, one of the .. PM 35 307-14 1868 [weeks156/par 373] see also vol 39

W Thomson. On electrical machines founded on induction and convection. PM Jan 1868 [see  
disc file II, 'Electrostatic Machines']

GJ Stoney The internal motion of gases PM 36 1868 132-141 [dsb 13/dsb 8 511a/biog file/19<sup>th</sup>  
p234] Stoney's most imp work

Helmholtz On discontinuous motions in liquids. PM 36 1868 337-46 [shaw p 318/leo p254]  
repro first English

W Huggins Further observations on the spectra of some of the stars. PM 36 1868 p 56-60, 240.  
[par 369]

Rayleigh. On some electromagnetic phenomena.. Phil. Mag 1869 [davis p. 69 - Rayleigh first  
paper]

Mills PM 1869 37 461 [part175]

Crum Brown On chemical constitution.. PM 1869 37 395 [part553]

Kane, MD Matthiessen & Francis PM 37 jan-June 1869 [ABE at \$500]

J Tyndall Phil Mag 37, 1869, 384; 38, 1869, 156 [sub p 107] blue of sky

Angstrom Spectrum of Aurora Borealis PM 38 1869 246-7 [dsb/par 369] also pogg ann 137

Rayleigh On some electromagnetic phenomena.. PM 38 1869 1-14 [dsb]

J Tyndall Phil Mag 37, 1869, 384; 38, 1869, 156 [sub p 107] blue of sky

Roscoe. Researches on Vanadium II. PM 39 146-150 1870 (see also vol 35).

Proctor On certain drifting motions of the stars PM 39 1870 381-383 [dsb]

James Croll On ocean currents PM **39** 1870 81-106, 180-194; 40, p233-259; 42 1871 241-280 [sea p330,331]

Rayleigh. Phil. Mag., Vol. **40**, 1870, p.211 [obitvii]

JC Maxwell On hills and dales PM 40 1870 421-5 [artificial vision of topology, disc file III]

Rayleigh. On the light from the sky. Phil. Mag 1871 **41**, p. 107-120, 274-9, 447-454 (davis p.73; lindsay/dsb)

EJ Mills. On statistical and dynamic ideas on the atomic theory. Phil. Mag., 1871 vol. **42**, pp. 112-29. [mills&boon]

Budde PM 1871 **42** 290 [part 724] – law

Dumas JBA PM **42** 129 1871 [Mccollum226] imp

Angstrom On the spectra of the simple gases PM **42** 1871 395-9 [dsb]

William Siemens On the increases of electrical resistance in conductors.. PM **42** 1871 150-2 [par 380] platinum resistance thermometer.

H. Helmholtz. Ueber die Fortpflanzungsgeschwindig.. PM 42 1871 232-6 [leo p282]

Prat JH The solid crust of the earth cannot be thin. PM 42 1871 280-90 [mel p 242]

JW Glaisher On a class of definite integrals PM 42 1871 p 296 [term ‘Error, Law of error..’ – enu]

Clausius A contribution to the history of the mechanical theory of heat PM **43** 1872 106-115 [dsb 3 310a] av Also vol 44 [mer2 p97]

Draper PM **44** 1872 104, 422 [part717, 728]

Glaisher Notice respecting some new facts in the early history of logarithms **44** 1872 291-303 and **45** 1873 376-382 and de haan, p371-6 [dsb 14 p51b]

JJ Thomson PM **44** 1897 p269 [sub p388]

J Dewar PM **44** 1872 p 461 [sub p 400]

H. Helmholtz. Ueber die Theorie der Electrodynamik. PM **44** 1872 530-7 [leo p. 288]

O. Heaviside. On Duplex Telegraphy. Phil. Mag 1873, 1, pp.426 [davis272]

Samuel Morse On his Telegraph PM **46** 264 [ron]

Henry Draper On diffraction spectrum photography. PM **46** 1873 417-25 [par 380]

Dana JD On some results of the Earth’s Contraction from Cooling... PM **46** 1873 p 41-219 [mel p 241]

O. Heaviside. On Wheatstone’s Bridge. Phil. Mag., 1874, **47**, pp93-4 [davis271]

Rayleigh. On the Manufacture and Theory of Diffraction-Gratings. Phil. Mag. **47**, pp.81-93, 193-205, 1874 [lindsay/ dsb]

H. Helmholtz. On Galvanic Polarization in Fluids free from Gas. PM **47** 1874 145-153 [leo p 294] repro

Abney. On the opacity of the Developed Photographic Image PM **48** 1874 161-5 [dsb]

Rayleigh Phil. Mag. General theorems relating to equilibrium.. PM **49** 1875 218-224 1875 [Kelvin obit pL/ dsb]

Guthrie PM 1875 **49** 1, 206 (name cryohydrate), 266, 266: 1876, 1,49, 354, 446, 1876, **2**, 211: 1878, **6**, 35, 105: 1884, 16, 462 (names eutectics and eutexia) [part 453, 588]

F Galton. Statistics by intercomparison with remarks on the Law of Frequency of Error. PM **49** 1875 33-46 [forrest/term ‘Ogive’ - enu]

Rayleigh PM **49** 1900 539 [sub p388]

JJ Thomson PM 48 1899 p547 [sub p 388]

Kerr On a new relation between electricity and light PM **50** 1875 337-348 [dsb]

### Series 5 (1876-1900)

Ramsey PM 1876 **1**, 328 [part744] – a theory  
Boisbaudran?Wurtz PM 1876 **1** 542 [part897] – disc. of Gallium  
Rayleigh On waves PM **1** 1876 257-259 [dsb]  
Mayer AM Account of how Young arrived at colour theory PM **1** 1876 p 111 [mer 2 p 481]  
Mendeleeef Gallium PM **1** 1876 542-546, 86-88

Ramsey PM 1876 **2** 269 [part915]. 1<sup>st</sup> paper  
Boisbaudran PM **2** 1876 398-400 [disc of gallium – dsb]  
H. Helmholtz. Report on the Electrognetic Effect of Electrical Convection, carried out by Mr Henry A Rowland. PM **2** 1876 233-7 [leo p 295] av. repro. also PA 158  
H. Helmholtz. Report on the Experiments of Dr E. Root.. PM **2** 1876 153-6 [leo p 295] av. repro. also PA159

JJ Thomson. (first paper) Phil. Mag 1877, **3**, 389 (Davis p.311)  
Abney On the alkaline development of the photographic image PM **3** 1877 46-51 [dsb]  
Kerr J. On the rotation of the plane of polarization.. PM **3** 1877 321-343; 5 1878 161-77 [dsb/Buchwald: From Maxwell to microphysics. Blue pb p 325]  
Rayleigh Acoustical observations I PM **3** 1877 456-464 [dsb]  
Guthrie F PM **3** 1877 pp139-41 [barom p. 88, 117]

Galton, F. Description of the process of verifying thermometers.. PM **4** 1877 226-31 [forrest] repro.

Kerr John Magnetic field & plane of polarisation PM 5? **1877** p. 321 [brock p. 210/tv p 274]

Kelvin. Phil. Mag., Jan 1878[obitpxlv;gd]  
Mayer PM 1878 **5**, 397; 1879, **7**, 98 [part948]  
Sabine. Some electrical experiments.. selenium. PM 1878 **5** 401 (disc file)  
H. Helmholtz. On Galvanic Currents caused by differences.. PM **5** 1878 348-358 [leo 309] imp researches. repro

WC Roentgen Ueber Entladungen der Elektricitat.. PM **6** 1878 438-447 [Engl. Repro]

Thomson Phil Mag May 1879 [mer2 p168]

Rayleigh Acoustical observations II PM **7** 1879 149-162 [dsb]  
Roentgen & Kundt. Nachweis der electromagnetischen.. PM **7** 1879 173-6 [rs papers]

Venn J On the diagrammatic and mechanical representation.. (diagram) PM **9** 1880 1-18 [cart]  
Bridge, J. On a calculating apparatus based on Napier's rods PM **9** 1880 191-97 [oc227]  
EH Hall. On a new action of the magnet on electric currents. Phil. Mag. 1880, **9**, pp. 225- [davisp113]

Leeds PM 1880 **10** 89-97 [part718]  
Goldstein repro PM **10** 1880 234 [DSB V 459]  
Rayleigh On the resolving power of telescopes PM **10** 1880 51-56 [dsb]  
Hall EH. On the new action of magnetism on a permanent electric current PM **10** 1880 301-28 [Buchwald: From Maxwell to microphysics. Blue pb p 324]

JJ Thomson. Electromagnetic theory of mass 1881 [broch p.211]  
JJ Thomson On the electric and magnetic effects produced.. PM **11** 1881 229-249 [dsb/sub p 162.[Buchwald: From Maxwell to microphysics. Blue pb p 328]  
Townsend PM 1881 **11** 381-90 [part931]

GJ Stoney On the Physical Units of Nature PM **11** 381-390 1881 [Leicester228/Disc file.  
Lecture to BAAS in 1874 finally printed 7 years later . See disc. file/douglas clarkp39/dsb13]  
Brauner On the Atomic Weight of Beryllium PM **11** 1881 60-65, 65-72 [dsb]  
H. Helmholtz. Note on stereoscopic vision. PM **11** 1881 507-8 [rs papers/np p84]  
WC Roentgen. Ueber Tone, welche durch.. PM **11** 1881 308-311 [rs papers]

Rayleigh On the Electromagnetic Theory of light.. PM **12** 1881 81-101 [dsb]  
Gray, T. On instruments for measuring and recording earthquake motion. PM **12** 1881 199-212. [thi p363]

Leconte On sound shadows in water PM **13** 1882 98-113 [dsb8]  
T Bayley PM **13** 1882 26 [spron p148, 209]  
AA Michelson Interference phenomena in a new form of refractometer PM **13** 1882 236-242 [rs papers]

Rayleigh. On an Instrument capable of Measuring the Intensity of Aerial Vibrations. Phil. Mag. **14**, pp. 186-187, 1882 [Lindsay/dsb]  
H. Helmholtz. Ueber absolute Maassysteme fur.. PM **14** 1882 430-440 [rs papers]

JJ Thomson On a theory of electric discharge in Gases PM 1883 **15** 427-34 [part929/dsb]  
Rayleigh On the maintained vibrations PM **15** 1883 229-235 [dsb]  
AA Michelson A method for determining the rate of tuning forks. PM **15** 1883 84-7 [rs papers]  
WC Roentgen Ueber die durch elektrische.. PM **15** 1883 132-143; **16**, 1883, 96-109 [rs papers]  
JJ Sylvester maths PM **15** 1883 p254 [caj p 35]

Rayleigh On the crispations of fluid resting upon a vibrating support. PM **16** 1883 50-58 dsb  
Rayleigh. On Laplace's theory of capillarity PM **16** 309-315 [dsb]  
JJ Sylvester. On the equation to the secular inequalities... PM **16** 1883 267 [see term 'eigenvalue,...' -enu]  
WC Roentgen Ueber die durch elektrische.. PM **15** 1883 132-143; **16**, 1883, 96-109 [rs papers]  
WC Roentgen Ueber die thermo, aktino, und piezo... PM **16**, 1883, 194-7 [rs papers]

Dewar On the liquefaction of oxygen Phil Mag, 1884, **18**, p. 210 [Davis p.93/part905 DSB IV 81b]  
Trouton On molecular latent heat PM **18** 1884 54-57 [dsb]  
A Bucheim Proof of Professor Sylvester's Third Law.. PM **18** 1884 459-460 [term 'Null Space' - enu]

Macfarlane A The Logical Spectrum. PM **19** 1885 p 286 [Michael thompson \$1250!]  
Ayrton, H. The Uses of a line-divider PM **19** 1885 280-285 [dsb 17]

O Lodge. On the seat of the electromotive forces in the voltaic cell. PM **20** March 1885 p. 372 [yeh]  
Elster Observations on the electrical processes in thunder clouds PM **20** 1885 [DSB IV 357b]  
Reynolds PM **20** 1885 469 [disc file 2]  
Edmonson, J. Summary of lecture on calculating machines PM **20** 1885 p 15-18 [cor p 69/randell p. 463]

Langley the actinic balance repro? PM 1886 **21** 394; **22** 149 [douglas clark p154]

O. Fisher. On the variation of gravity... Phil Mag, vol. **22**, pp.1-29 1886 (medium-greene)  
Ostwald Phil Mag 1886 **22** 104-118 [part677] - a law

CV Boys. On the production, properties and some suggested uses.. Phil. Mag, 1887, **23**, 489 [davis p111]



AA Michelson & EW Morley. On the Relative Motion of the Earth and the Luminiferous Aether. Phil. Mag, series 5, **24**, no. 151, 1887, pp. 449- [davis p. 115] [q cat 1232 p34]  
 Phil. Mag, Fifth series, Dec 1887, vol **24**, no 162 p 371 [qp371]  
 O. Fisher. On the variation of gravity... Phil Mag, vol. **24**, pp.391-394 1887 (medium-greene)  
 Michelson, AA On the application of interference methods to spectroscopic measurements  
 Phil. Mag, Vol. **24**, Sept. 1892 pp. 280-99 [q cat 1232 p33 at £400]  
 Rayleigh On the maintenance of vibrations.. PM **24** 1887 145-159 [dsb]

O. Fisher. On the variation of gravity... Phil Mag, vol. **25**, pp.7-20 **1888** (medium-greene)  
 Armstrong. PM 1887 **25** 73 [summary of work of Thomsen] [part612, 804]

Lodge. On the theory of lightning conductors. Phil. Mag 1888, **26**, p. 217- (Davis p. 272)  
 Van't Hoff 1888 **26** 81 [part 654, 916]  
 Hallwachs On the electrification of metal plates PM 1888 **26** 78 [douglas clark p155]  
 Tanakadate & Knott Mean intensity of magnetization.. PM **26** 1888 450-456 [dsb18 p893] see  
 vol 27

Hertz. On the Rays of Electric Force. Phil. Mag., April 1889, **27**, no. 167, p. 289. [Davis p. 273]  
 Rayleigh On the character of the complete radiation.. PM **27** 1889 460-469 [dsb]  
 Tanakadate The thermal effect due to reversals.. PM **27** 1889 207-218 [dsb18p893] see vol 26  
 O Heaviside On the electromagnetic effects due to the motion of electrification.. PM 27 1889  
 324 .[Buchwald: From Maxwell to microphysics. Blue pb p325]

O Lodge and JL Howard. On Electric Radiation and its concentration by lenses. Phil Mag **28**  
 1889 p 48

JR Rydberg. On the Structure of the Line-Spectra of the chemical elements. Phil. Mag **1890**,  
**29**, p.331-7 [davis p.116/DSB 12 44b]  
 Schuster The disruptive discharge of electricity through gases. PM 29 1890 182-199 [dsb12  
 p238b]  
 J Enright On the electrifications due to the contact of gases PM 1890 **29** 56 [douglas clark p39]  
 Rayleigh, Lord On bells. PM **29** Jan 1890 [bel]

Rayleigh On the tension of water surfaces.. PM 1890 **30** 285-298, 386-400, 456-475; 1899, 48, 321  
 [part 743/dsb]  
 AA Michelson On the application of interference methods to astronomical measurements. PM  
**30** 1890 1-21 [rs papers]

Minchin PM 1891 **31** 207-38 [part718]  
 AA Michelson Visibility of interference-fringes in the focus of a telescope PM **31** 1891 256-259  
 [rs papers]  
 AA Michelson On the application of interference methods to spectroscopic measurements.  
 PM **31** 1891 338-346 [rs papers]

A. Richardson The expansion of chlorine by light.. PM 1891 **32** 277-84 [part 724 not imp]  
 Roberts-Austen & Rucker AW On the specific heat of basalt. PM 32 1891 353-5 [mel p 244]

D Mendeleef. On the variation of the density of water.. PM 33 1892 99-132

Dewar & Fleming PM 1893 **35** 271 [disc file]  
 Barus C The Fusion Constants of Igneous Rocks. PM 35 1893 296-307 [mel p 242, 244]

Jones PM 1893 **36** 465 [part648] – proof of equation  
 JJ Thomson On the effect of electrification and chemical action.. PM **36** 1893 313-327 [dsb]

Samuel Pierpont Langley The internal work of the wind. PM **37** 1894 425-8 [bro]

G. Johnstone Stoney. Of the electron..PM 1894, **38**, pp. 418-20 [part931/cp/dsb13/cp2] imp repro - term electron

Rayleigh An attempt at a quantitative theory of the telephone PM **38** 1894 p295-301, 365-370 [radio waves] [disc file/dsb]

JJ Thomson On the velocity of the cathode-rays PM **38** 1894 358-365 [dsb]

Lord Kelvin On the resistance of a fluid to a plane.. PM 38 1894 409-413 [bro]

Evershed Experiments on the Radiation of Heated Gases PM **39** 1895 460 [DSB IV 498b]

Olszewski. Liquefaction of gases PM **39** 1895 188-213 [DSB 10 206b]

Korteweg DJ & de Vries G On the change of form of long waves.. PM **39** 1895 422-443 [theory of integrable systems, disc file II/dsb]

JJ Thomson - 1<sup>st</sup> report on electron in PM in 1894 [Harre - great Scientific Experiments p175]

S. Arrhenius. On the influence of carbonic acid in the air Phil Mag 1896, **41**, 237 [davis p111/dsb/cp/biog file selected classic papers from the history of chemistry - classic papers in... file/cli p 386] - on greenhouse effect

Natanson On the Laws of Irreversible Phenomena PM **41** 1896 385 [DSB 9 617]

RW Wood. A duplex mercurial air-pump. Phil. Mag. 1896, **41**, pp.378-387

Wood On the Absorption spectrum of solutions PM 41 1896 423-431

JJ Thomson & E Rutherford. On the passage of electricity through gases .. Phil Mag 1896, **42**, p.392-407 [davis p314/douglas clark p76/dsb13 p371b]

Debus: the genesis of Dalton's atomic theory PM **42** 1896 350 [douglas clark p18]

SP Thompson On Hyperphosphorescence PM 1896 **42** 103 [douglas clark p96/cp]

Rayleigh On the theory of optical images with special reference to the microscope. PM **42** 1896 167-95 [vir p 228]

W.Wien. On the division of energy in the emission-spectrum of a black body. Phil. Mag. **1897** **43** 214-220 [davis p.111/dsb]

Barlow PM **43** 1897 110-117 (DSB av)

Zeeman, Lorenz PM **43** 22X [disc. file-andrade]

Rutherford, E. On the electrification of gases exposed to Rontgen rays.. PM **43** 1897 241-255 [jweber cat 102 \$750]

P. Zeeman. On the influence of magnetism on the nature of the light emitted by a substance. Phil. Mag, vol **44**, (?43) 5th series, **1897**, pp. 226-39. [davis p.118, q cat 1232 p53 at £600]- nobel also next

Rayleigh. On the Cooling of Air by Radiation and Conduction, and on the Propagation of Sound. Phil. Mag., vol. **44**, pp. 308-314, **1899** [lindsay]

Rayleigh On the propagation of waves.. PM **44** 1897 356-362 [dsb]

JJ Thomson. Cathode Rays. Phil. Mag., series 5, **44**, no. 269, pp. 293-316 Oct. 1897  
[davis p317;q84, qp46/PM386/19<sup>th</sup> p230] [classphysM&B/ Harre - Great Scientific experiments/part931/Leicester228/douglas clark p77&210/dsb 13 p371/jweber cat 102 \$900/tim]

Brace Observations on light .. PM **44** 1897 342-349 [dsb]

Rutherford The Velocity and rate of combination... PM 1897 **44** 422 [douglas clark p. 76]

Zeeman, Pieter Measurements concerning radiation-phenomena.. PM 45 1898 197-201 [jweber cat 102, 139 at \$400]

G Johnstone Stoney. Evidence that Rontgen rays are ordinary light PM 1898 **45** 532 [douglas clark p 77]

Rayleigh Note on the pressure of radiation.. PM 45 1898 522-525 [dsb]

Wood Phase reversal zone plates PM 45 1898 511-522 [dsb]

JJ Thomson. On the Charge of Electricity carried by the ions.. Phil. Mag., 1898, 46, p528- 545  
[davis p.320] [PMM386] [classphysM&B/part931/douglas clark p39/dsb]  
Hall PM 1898 46 465 [part743]  
Wood The anomalous dispersion of cyanin PM 46 1898 380-6 [dsb]  
Smoluchowski M On the conduction of heat by rarefied gases PM 46 1898 192-206 [jweber cat 102 \$300] repro of PA?

Chapman PM 1899 47 90 [part632] basis of modern theory not imp  
Rutherford Uranium radiation and the electrical conduction produced by it PM 1899 47 109-163 [part939/webercat88 \$450; cat 143 \$400/Leicester228/cp2]  
Rayleigh On the cooling of air by radiation.. PM 47 1899 308-314 [dsb]  
Rayleigh On the transmission of light through an atmosphere containing particles on suspension, and on the origin of the blue of the sky. PM 47 1899 375-384 [dsb]  
Rayleigh On the calculation of the frequency of vibration.. PM 47 1899 566-572 [dsb]  
JJ Thomson On the theory of the conduction of electricity through gases PM 47 1899 253-268 [dsb]  
Wood An application of the diffraction grating to colour photography PM 47 1899 368-372 [dsb]  
Callendar HL PM 47 1889 191 [cryo p515]  
K Pearson. On certain properties of the hypergeometrical series.. PM 47 1899 236-246 [term 'hypergeometric distribution' - enu]

JJ Thomson. On the masses of the ions in gases... Phil. Mag., 1899, 48, pp. 547- [davis p.321]  
[classphysM&B]part947/dsb/cp2/msp - the start of mass spectrometry/jweber cat 102 \$1500/tim]  
Owens Thorium radiation. PM 48 360-87 Oct 1899 [weeks p412/part940]  
Dampier Whetham. PM 1899 48 474 [part735] - law confirmation  
Brace Description of a New Spectrophotometer PM 48 1899 420-430 [dsb]  
Wood Photography of sound waves PM 48 1899 218-227 [dsb]

Rutherford, E On a radioactive substance emitted from thorium. Phil. Mag, 1900. S5 Vol 49, 1-14 [19cp67/weeksp412/leicester198/douglas clark p97/cp2/19<sup>th</sup> p236/jweber cat 102 \$1800]  
Rutherford & Soddy. An investigation of the radioactive emanation.. PM 49 1900 161-92 feb [weeks p412/part940]  
Rutherford PM 1900 49 161 [part941]  
Rayleigh The law of partition of kinetic energy PM 49 1900 98-118 [19<sup>th</sup> p227, 231/sub p 401]  
Rayleigh. Remarks upon the Law of Complete Radiation. Phil. Mag., 49, pp. 539-540, 1900 [lindsay/dsb/19<sup>th</sup> p231]

Wood The photography of sound waves and the demonstration of the evolutions ... cinematograph PM 50 1900 148-157 [dsb]  
K Pearson On criterion that a given system of deviations from the probable.. Phil. Mag, 1900. Vol 50, 5th series 157-75 [(Chi<sup>2</sup> test, fairly good)- 19cp60/thorndike in psy/terms 'Chi Square, P-Value - enu]

### **Series 6 (1900-1925)**

RW Wood Many papers in PM 1900 -1920 [see dsb]

Strutt, RJ 1901 PM 1 311 [disc. file-andrade]  
Townsend The conductivity produced in gases.. PM 1 1901 198-227 [dsb]

Thomson W (Kelvin) On Ether and Gravitational Matter through Infinite Space Phil Mag 2 1901 p 161 [bertot p 36] imp.

K Pearson. On lines and planes of closest fit to systems of points in space. PM 2 1901 559-72 [bdp]

Rayleigh. Phil. Mag vol 2, 1901, pp. 280-5. [obitpv, not imp]

Warburg On the physical peculiarities of solutions.. PM 3 1902 346-8, 498-500 [dsb]

Kelvin Aepinus atomised. PM 3 1902 257-283 [Nagaoka DSB 9 606/cp2] tog with vol. 7

Hilton A concordance of notations PM 3 1902 203-212 (DSB I 463a)

Thomson PM 3 1902 257- [cp]

Rayleigh On the Pressure of Vibrations PM 3 1902 338-346 [dsb]

Rayleigh. Is Rotary Polarization influenced by the Earth's Motion? Phil. Mag., 4, pp. 215-220, 1902 [lindsay/dsb]

Rutherford & Soddy Phil. Mag, 1902 Vol. 4 pp. 370, 569[P411m]

[classphysM&B19cp67/weeks p. 412/part941]; 190

Grier PM 1902 4 315 [part941]

Vol 5 on offer from Chaucer head at £400, Quaritch £550

Rutherford. The magnetic and electric deviation of the easily absorbed Rays from Radium..

Phil. Mag. 1903, Series 6, Vol. 5, pp. 177-187. [P411m] [classphysM&B/part940]

Rutherford & Soddy. Phil. Mag., vol 5, Jan-June 1903, pp. 445,561,576 [part941] 576-591

Qp73/Leicester228/19<sup>th</sup> p236

HA Wilson A determination of the charge on the ions.. PM 1903 5 429 [part931/douglas clark p39]

Thomson On the charge of electricity carried..PM 1903 5 346 [part931/douglas clark p39/dsb]

Barkla Secondary radiation.. PM 5 p 685-698 (DSB)

Brace A sensitive strip spectropolariscope PM 5 1903 9 [dsb]

JJ Thomson The magnetic properties of systems of corpuscles PM 6 1903 673-693

Nagaoka Kinematics of a system of particles... Phil. Mag, 1904. Volume 7, Sixth Series pp.

445-55 [19cp60/part948/DSB 9 606/19<sup>th</sup> p234]tog with vol 3 1902

JJ Thomson On the structure of the Atom.. PM 1904 7, 237-265: 1906, 11, 769-781

[part948/Leicester228/disc file-andrade/douglas clark 210-wrong theory?/dsb/cp2]

Barkla Energy of Secondary.. PM 7 1904 543-560 (DSB)

Brace Double refraction in matter.. PM 7 1904 317-328 [dsb]

Trouton Viscosity of pitch-like substances PM 7 1904 347-355 [dsb]

Brooks A volatile product.. PM 8 373 1904 [weeks413]

Kelvin PM 8 528-534 1904; 10 695-698 1905 [leicester228]

Rutherford. The Succession of changes in radioactive Bodies. Phil. Mag. 8 636 1904

[weeks413]

Bragg & Kleeman PM 1904 8 719, 726, 926; 1905, 10, 318; 1906, 11, 754. [part943/dsb]

Slater On the Excited Activity of Thorium PM 9 628-44 1905 [weeks214]

EW Morley & DC Miller PM 9 1905 680 [sub 135]

Godlewski A new radioactive product from Actinium PM 10, 35-45 1905. [weeksp413]

Brace 3 articles on ether drift PM 10 1905 [dsb]

JH Jeans PM 10 1905 91 [sub p 387] Rayleigh-Jeans law

Rayleigh. On Electrical Vibrations and the Constitution of the Atom. Phil. Mag., Vol. 11, pp. 117-123, 1906. [lindsay/dsb]

JJ Thomson On the number of corpuscles in an atom PM 1906 11 769 [part935, 948/cp2]

webercat81item300

Barkla PM **11** 1906 812-828 (DSB)  
Rutherford PM **11** 1906 p 166 [phy p 8]

Rutherford. The mass and velocity of the alpha particles expelled from radium and actinium.  
Phil. Mag., 1906, vol. **12**, 348-71 [classphysM&B/part940,943/Leicester228]

Rayleigh On the experimental determination of electrical units PM **12** 1906 97-108 [dsb]

Trouton & Searle Leakage currents on glass surfaces PM **12** 1906 336-347 [dsb]

Thomson On rays of positive electricity PM 1907 **13** 561-575; 1909, 18, 821; 1911, 21, 225; 1912, 24, 209 [part932/dsb/msp/land p25] start of mass spectrometry

Olszewski PM **13** 1907 722-724 [DSB 10 206b]

Bucherer PM **13** 1907 413-429 [dsb]: 15 1908 939-940

Rayleigh On our perception of sound direction.. PM **13** 1907 214 [dsb]

Trouton & Russ Rate of recovery of residual charge PM **13** 1907 578-588 [dsb]

J Joly On Pleochroic Haloes PM March 1907 [see biog file] age of earth see 1910

Bragg PM **14** 1907 429-449 [dsb]

Rayleigh PM **14** 1907 p596 [disc file]

Lowell A general method of evaluating the surface temperature of the planets.. PM **14** 1907 July 161-176 [mar 248]

Thomson PM **14** 1907 359 [land p25]

Thomson PM **16** 1908 657 [land p25]

Raman Phil Mag 1909 **17** 495 [part729]S

Rutherford & Royds. The nature of the alpha particle from radioactive substances. Phil. Mag. 1909. Volume **17**, 6th series, pp. 281-86 [qp38] [P411m] [classphysM&Bq74/DSB 12 506/Leicester228/douglasclark p97]

Barkla PM 1909, **17**, 739; 21, 270; 1911, 22, 396 [part934/DSB]

McBain PM **18** 1909 916 [part741]

Sadler PM **18** 1909 107-132 (DSB I 459a)

JJ Thomson Positive Electricity PM 1909 **18** 821 [douglas clark p77/dsb/land p25]

Millikan A new modification of the cloud method. Phil. Mag, 1910. Vol. **19**, Sixth Series. pp. 209-288 [19cp59/q cat 1232 p34 at £500/douglas clark p39]

JJ Thomson On a theory of the structure of the electric field.. PM **19** 1910 301-313 [dsb]

Lowell On the limits of the oblateness of a rotating planet.. PM **19** 1910 710-712 [dsb]

Thomson PM **19** 1910 424 [land p25]

Bragg The consequences of.. PM **20** 1910 385-416 [dsb]; **22** 1911 222-23; **23** 1912 647-650 [dsb]

JJ Thomson Rays of positive electricity PM 1910 **20** 752-67; 1911 **21** 225 [douglas clark p77/msp/land p 25]

J Joly Pleochroic Haloes PM Feb 1910 [biog file] age of earth see 1907

Rutherford, E. The scattering of alpha and beta particles...Phil. Mag, 1911, Vol **21**, pp 225-49 & 669-88 [19cp67/qp39/q71/douglas clark p98&121/Disc file -Andrade/cp2 Leicester228/19<sup>th</sup> p234/phys p11]

CG Barkla PM **21** 1911 648 [phys p 11]

Thomson PM **21** 1911 225 [land p25]

Antonoff The distintegration products of Uranium PM **22** 419-32 1911 [weeks 414]

?Townsend PM 1911 **22**, 204; 1912, 22, 677 [part931]

Boltwood & Rutherford Production of helium from radium. PM 1911 22 586 [douglas clark p98]

Rutherford PM 1911 22 669 [part949] from Manchester Lit & Phil Soc

Barkla PM 22 1911 396-412 (DSB/ douglas clark p121)

Fajans & Moseley Radio-active Products of Short Life. PM 22 1911 629-638 [dsb17 p285]

CG Darwin A theory of Absorption and scattering.. PM 23 1912 901 [dsb]

Swann The Fitzgerald-Lorentz Contraction.. PM 23 1912 86-95 [dsb]

JJ Thomson On the scattering of rapidly moving electrified particles PM 23 1912 449-457 [dsb]

JJ Thomson Ionization by moving electrified particles PM 23 1912 449-457 [dsb]

Richardson & Compton. The photoelectric effect. Phil. Mag., 24 1912, pp. 575-94.

[classphysM&B]

Rutherford PM 1912 24 453 [part949] imp

JJ Thomson Further Experiments on positive rays PM 24 1912 209-253 [douglas clark p 77/ dsb see also vol 20 etc land p25]

Swann On the earth's magnetic field PM 24 1912 80-100 [dsb]

Geiger & Marsden The law of deflexion of alpha particles PM 1913 25 604 [part949/ douglas clark p98& 121/cp2/phys p11/classc papers in chemistry]

Bohr On the constitution of atoms and molecules Phil. Mag, 1913. Vol 26 Sixth series pp. 1-25, 476-501, 857-75. [qp4/5/19cp62] [classphysM&B/ douglas clark 121/msp/part956/leicester28 /douglas clark p210/disc file-andrade/cp/cp2/sub p 386, 433/phys p 11]imp also vol 27 [Quaritch £ 1200 for vols 26&27]

Moseley The High-Frequency Spectra of the Elements.. Phil. Mag, 1913. Vol 26 Sixth series 1024-1034 [part951/leicester228/DSB 9 544/cp2/Norman cat 32 at \$1500/scientia cat 35/phys p11/land p27]

Rutherford & Nuttall. Scattering of alpha particles by gases. Phil. Mag., 1913, vol. 26, pp. 702-12. [classphysM&B/ douglas clark p121/Norman cat 32 offprint at \$200] 1914 27 488 [part952]

Antonoff On the existence of Uranium Y PM 26 1058 1913.

Moseley & Darwin. The reflexion of X-rays PM 26 210-32 1913.[DSB 9 544/III 564b]

OW Richardson The emission of electrons PM 26 1913 345 [douglas clark p120]

Rayleigh On the motion of a viscous fluid PM 26 1913 776-786 [dsb]

JJ Thomson On the structure of the atom. PM 26 1913 792-799 [dsb]

Rutherford & Richardson Analysis of the gamma rays from radium D.. Phil Mag 26 1913 324-332 [Norman cat 32 offprint at \$200]

Geiger & Marsden. The laws of deflexion of alpha particles through large angles. Phil. Mag. 1913, series 6, vol. 27, pp. 604-23. [classphysM&B]

Moseley The high frequency spectra of the elements. Phil. Mag, 1914. 27 number 159, pp. 488-98, 703-13, 1024-34 see also vol 26 [qp40/19cp62/p407m] [classphysM&B/ weeks 446]/part951/leicester228/DSB 9 544/msp/land p25]

Rutherford. The structure of the atom. Phil. Mag., 1914, series 6, vol. 27, pp. 488-98.

[classphysM&B]/part957/Douglas Clark p98/cp2

van Broek 1914 27 455 [part950]

Marsden PM 1914 27 824 [part953]

Thomson PM 1914 27 757 [part959]

Bohr PM 27 506-524 1914 [Leicester 228]

CG Darwin x-ray reflexion PM 27 1914 315, 675; 41 1921 486; 43 1922 800, 44 1922, 450, 823 [dsb]

Rydberg. The Ordinals of the elements and the High frequency spectra PM 28 144-8 (DSB 12 44b)

Rutherford. Radium constants. Phil. Mag., 28, pp. 320-7 1914 q71

Lyman T PM 1915 **29** 284 [disc file-andrade]  
 Lambert On a tidal problem.. PM **29** 1915 737-744 [dsb]  
 Rayleigh Some problems concerning the mutual influence of resonators exposed.. PM **29** 1915 209-222 [dsb]  
 Bohr, Niels On the series spectrum..Phil. Mag., 1915, vol. 29 pp 332-5,  
 N Bohr Phil Mag vol **30** 394-415, 581-612

Hardwick & O'Shea PM 1916 585-8 [part64 not imp]

Lord Rayleigh (Strutt JW) On convection currents in a horizontal layer of fluid.. PM **32** 1916 529-46 [cit]

Rayleigh The theory of anomalous dispersion PM **33** 1917 496-499 [dsb]

Rayleigh. On the Pressure Developed in a Liquid During the Collapse of a Spherical Cavity. Phil. Mag., vol. **34**, pp. 94-8, 1917 [lindsay/dsb/saga]  
 Millikan A new Determination of e, N Phil Mag 1917 **34** 1 [douglas clark p40]

Rayleigh On the scattering of light by a cloud of similar small particles.. PM **35** 1918 373-381 [dsb]

Bose & Saha On the influence of the finite volume.. PM **36** 1918 199-202 [dsb]

Rutherford. Collision of alpha particles. Phil. Mag., 1919, vol **37**, 6th series, no. 222, pp. 537-87. [q68/qp40&33 P411m 19cp68/q72/Harre Great Scientific experiments/part953/number at \$1750 from Norman, volume at £850 from Chaucer Head, volume in quaritch sheets at \$2400, Bauman feb07 \$2600]. Also pp562, 571, 581 [douglas clark p166]  
 Rayleigh On the problem of random vibrations.. PM **37** 1919 321-347 [dsb]  
 JJ Thomson On the origin of spectra and Planck's law PM **37** 1919 419-446 [dsb]

Aston FW. A positive ray spectrograph PM 1919 **38** 707 and many later papers [douglas clark p 77/part932/dsb/msp] **37** 1919 523-534

Aston FW The Constitution of Atmospheric Neon Phil. Mag., 1920, vol. **39**, 6th series, no. 232, pp. 449-55. [qcat1249p2/q4/nobwho/land p25]  
 Aston. The mass spectra of chemical elements. Phil. Mag,**39** 1920 611; **40** 1920 628-34; **42** 1923 140; **45** 1924 934; **47** 1925 385 49 1925 1191 [nobwho/douglas clark p122/msp] imp  
 Rayleigh On the resonant reflexion of sound.. PM **39** 1920 225-233 [dsb]  
 JJ Thomson Mass, energy and radiation PM **39** 1920 679-689 [dsb]  
 Wood Light scattering by air and the blue colour of the skz PM **39** 1920 423-433 [dsb]  
 Bose & Saha On the equation of state PM **39** 1920 456 [dsb]  
 Anderson PM **39** 1920 p 626 [davies p116]

Saha. M. On Ionization in the Solar Chromosphere PM **40** 1920 472, 809 (DSB 12 71a) imp also vol 41  
 Chadwick PM 1920 **40** 734 [part952/phys p11]  
 Bose On the deduction of Rydberg's Law.. PM **40** 1920 619-627 [dsb]  
 Bragg The arrangements of atoms in crystals PM **40** 1920 169-189 [dsb XV p 64]

Saha M. On the problem of temperature radiation of gases. PM **41** 1921 267 (Wilson p 289)  
 WL Bragg, James, Bosanquet. The Intensity of reflexion of X-rays by rock salt. PM **41** 1921 p309 [brag p 152] ok see also vol 42

WL Bragg, James, Bosanquet. The Intensity of reflexion of X-rays by rock salt II. PM **42** 1921 p1 [brag p 152] ok see also vol 41

Harkins 1921 **42** 305 [part952]  
 Rutherford/Chadwick Artificial disintegration of light elements 1921 **42** 809  
 [part953/douglas clark p166/]  
 J Chadwick & ES Bieler PM **42** 1921 923 [sub p351]  
 Buckingham PM **42** 1921 696-719; **48**, 1924, 141-5 [dsb]  
 Duffield & Littlewood PM **42** 1921 166-173 [barom p 166] see also vol 46  
 D Wrinch & H Jeffreys On certain fundamental principles of scientific enquiry PM **42** 1921  
 369-70 [term 'Posterior Probability' - enu]

Aston Problems of the mass spectrograph PM **43** 1922 514-528 [dsb/douglas clark p77]  
 GB Jeffrey PM **43** 1922 600 [sub p 294]

Van Vleck The normal helium atom and its relation.. PM **44** 1922 842-869 [dsb18 p956]  
 AE Harward PM **44** 1922 380 [sub p294]  
 WL Bragg, James, Bosanquet. The distribution of electrons around the nucleus... PM **44** 1922  
 p309 [brag p 152] ok

J. Heyrovsky. Electrolysis with a dropping mercury.. Phil Mag **45** 1923 303 [nobwho/DSB VI  
 375b/Obit Notices FRS 1967] - 1<sup>st</sup> english edition of key techniwue  
 AH Compton The total reflection of x-rays PM **45** 1923 1121-31 [dsb]

Barlow PM **46** 1923 930-956 (DSB av)  
 H Bateman PM **46** 1923 977 [sub p 439]  
 MA Giblett PM **46** 1923 707-16 [barom p166] see also vol S42

Rutherford & Chadwick Radium. Phil. Mag Sept. 1924  
 de Broglie LCVM. A tentative theory of light quanta PM 1924 **47** 446-458 [part963/Jweber cat  
 102 \$875/TV p 283]  
 Bohr et al The Quantum theory of Radiation PM **47** 1924 785-802 [dsb/19<sup>th</sup> p235/sub  
 p421/tim]

Stoner The Distribution of Electrons among Atomic Levels PM **48** 1924 719-736 [DSB 10  
 423a/cp/cp2/DSB18 p877]

Nishina On the L-absorption spectra.. PM **49** 1925 521-7 [dsb18]

**Series 7 (1926- )**

Guggenheim EA On the determination of the velocity constant.. PM **2** 1926 538-43 [cit]

LH Thomas PM **3** 1927 1 [sub p 162]

Richtmyer Multiple ionization and absorption of x-rays PM **6** 1928 64-88 [dsb]

JJ Thomson On the Analogy Between the Electromagnetic Field and a Fluid containing.. PM  
**12** 1931 1057-1063 [dsb]

McLennan et al PM 1932 **13** p1196 [disc file]  
 Robertson, JM. A Simple Harmonic Continuous Calculating Machine. PM **13** 1932 413-9 [cor  
 p. 139]

Natanson Fermat's Principle PM **16** 1933 178 [DSB 9 617]  
 JJ Thomson

HT Gonin The use of factorial moments in the treatment of the hypergeometric... PM **21** 1936  
 215-226 [term - hypergeometric distribution' - enu]



On the Models of the Electric Field .. PM **16** 1933 809-845 [dsb]

Bronsted PM **29** 1940 449-470 [dsb]

HJJ Winter PM 1944 **35**, 371 [part 137]

Duncan WJ Some devices for the solution of large sets of simultaneous linear equations. PM **35** 1944 660-670 [cor p. 118]

Furth & Pringle. A New Photo-Electric Method for Fourier Synthesis and Analysis. PM **35** 1944 p 643-656. [cor p 137]

Fok. New Methods in Diffraction Theory PM **39** no. 289 1948 149-155 [dsb17]

Aston FW PM **39** 449-455 1920 [Leicester229]

Smith, EC PM 150<sup>th</sup> anniv no, 92, 1948 [singer IV p 167]

Shannon, C. A chess playing machine. Phil. Mag **41** March 1950 p256-75 [oc882]

Onsager L. Interpretation of the de Haas-Van Alphen effect. PM **43** 1952 1006-8 [dsb 18 p695]

Dungey Conditions for the occurrence of electrical discharges in astrophysical systems PM **44** 1953 725-738 [mag]

Grace et al Phil Mag **2** 1957 1050 1079 [cryo 356, 519]

---

Series 8 vols 1-36 1956-1977; continued as sections A&B