

NAME INDEX

- Allen 70–74
 Anderson 25
 Arons 135

 Bädeker 114
 von Baeyer 36
 Beatty 92
 Becker 72
 Bergwitz 73
 van der Bijl 34
 Borek 123
 Braun 79
 Brillouin 114
 Butman 129
 Byk 123

 Cannegieter 17
 Compton 30, 32, 37, 41
 Cornelius 37

 Dember 65, 73, 131–133
 Dike 97
 Duncan 88

 Einstein 43
 Elster 28, 59, 64, 65, 68, 69, 78

 Forbes 139
 Franck 21

 Gehrts 36
 Geitel 28, 59, 64, 65, 68, 69, 78
 Goldman 102–107, 127
 Griffith 59

 Hallwachs 70–74, 79, 94, 109, 119
 Harms 64
 Henry 21
 Herrmann 50, 74, 75, 111
 Hertz 21
 Hughes 12, 24, 37, 102, 109, 111, 114,
 117, 124
 Hull 136

 Jaffé 117
 Joffé 35

 Kalandyk 102–107
 Kemp 69
 Klages 36
 Klatt 127
 Kleeman 93
 Knoblauch 111
 Kunz 37, 42

 Ladenburg 28, 30, 35, 42, 66, 73, 77,
 78
 Lenard 3, 9, 17–19, 48, 55, 59, 127,
 134, 137
 Lichtenecker 61
 Lienhop 42
 Lindemann 69, 88
 Lorentz 63
 Luther 139
 Lyman 13, 15, 136–139

 Marx 61
 Merritt 64
 Millikan 28, 29, 36, 37, 42, 66, 73
 Mohlin 28, 77
 Morris Airy 135

 Nichols 64

 Obolensky 115

 Palmer 15
 Partzsch 57, 94
 Pochettino 111, 123
 Pohl 29, 60, 69, 75, 79, 81–87, 90
 Pringsheim 29, 60, 69, 75, 81–87, 90

 Ramsauer 17–19
 Ramsey 111
 Reboul 111
 Reiger 117
 Richardson 30, 32, 44, 45, 96

- Richtmyer 64, 73
Ries 107
Rohde 110, 119
- Saeland 127
St John 136
Schäffer 117
Schmidt 111, 119
Scholl 113
v. Schweidler 55
Serkof 24
Spencer 111
Stark 22, 121, 126
Steubing 25, 121
Stoletow 55, 119
Stuhlmann 93
Swann 97
Szivessy 117
- Thomson, Sir J. J. 3, 11, 50, 56, 65
Townsend 56
- Ullmann 71, 72
Unwin 65
- Varley 54, 65
Volmer 117, 124
- Westphal 21
Whiddington 21
Wilson, C. T. R. 7, 10
Wilson, W. 109, 113
Winchester 28, 36, 42, 66, 73
Winther 140
- Zeleny 65

SUBJECT INDEX

- Actino-dielectric effect 108, 122, 128
 Alkali metals, photo-electric properties of 77–87
 Alloys, photo-electric effect of 75–76, 84–85
 Atomic volume, relation of ionising potential to 51
- Colloidal modification of alkali metals 68–69
 photo-electric sensitiveness of 87
- Condensation nuclei
 method of investigating ionisation 10–11
 produced by light 19
- Conduction produced by illumination
 in sulphur 103–107
 silver iodide 113–114
 solutions 124–126
- Contact potential 32, 42
 Corpuscular pressure 100–101
- Decomposition of salts by ultra-violet light 111–112
- Electric discharge and photo-electric sensitiveness 36, 66–68
- Fatigue, photo-electric 70–75
 Fluorescent substances, photo-electric effect of 119–127
 Fluorite, transparency of 137–139
 Fluorite-violet 17
- Gases, effect of, on the photo-electric effect of metals 53–58
 Gases, ionisation in 7–21
- Hydrides, photo-electric effect of certain 68
- Intensity of light and the photo-electric current 58–64
 Intensity of light and the velocities of photo-electrons 28–29
 Intermittent light, photo-electric effect with 61
 Ionisation in gases and vapours by ultra-violet light 7–26
 Ionising potential 51, 108
 experimental values 20, 40, 58
- Light filters 139
 Liquids, photo-electric effect of 114–117
 Long wave-length limit of the actino-dielectric effect 107–108
 Long wave-length limit of the photo-electric effect 4–5, 51, 100
 for air 16, 19–21
 alloys 75–76, 84–85;
 anthracene 124
 metals 40–41
- Mercury arc as a source of ultra-violet light 134–135
 Metallic vapours, ionisation of 25
 Mobility of ions produced by ultra-violet light 13, 18
- Normal effect 82–87

- Organic substances, photo-electric effects of 119–127
 Organic vapours, ionisation by ultra-violet light of 22–24
- Phosphorescent substances, photo-electric effect of 127–130
 Photo-electric cells 64, 68–69
 Photo-electric effect of
 metals 35–42, 53–99
 non-metallic elements 100–108
 inorganic compounds 109–117
 organic compounds 119–124
 insulators 101–102, 117
 Polarised light, photo-electric effect with 77–89
 Positive rays produced by light 131–133
- Quantum theory 5, 20, 42, 63
 Quartz, transparency of 137–139
 Quartz-violet 17
- Radiometry, applications of the photo-electric effect to 64
 Resonance, photo-electric effect regarded as 47–51, 61–64
- Schumann region 11, 137
 Selective effect 82–89
 velocities of photo-electrons in 78, 88
- Sensitiveness, photo-electric
 in the infra-red 69, 90
 of alkali metals 82–89
 of newly formed surfaces 89–91
- Sodium-potassium alloy, photo-electric properties of 81
 Solutions, photo-electric effect of 116
 Spark, electric, as a source of ultra-violet light 135–136
 Statistical theory of the photo-electric effect 45
- Temperature
 relation of photo-electric effect to 65–66
 relation of velocities of photo-electrons to 42
- Thin films, photo-electric properties of 92–99
 Transparency for ultra-violet light of
 air 137
 hydrogen 137
 oxygen 15, 137
 quartz 137–139
 fluorite 137–139
 mica 137
 water 137
- Velocities of photo-electrons 27–52
 distribution of velocities 31–34
 measurement of 27–28, 31–34
 relation to intensity of light 28–29
 relation to frequency 29–42
 relation to nature of metal 40–41