

INDEX

These entries are, in general, those that are deemed most important and helpful. Generally, tabulated names and those in the Notes are excluded, as are names of secondary sources, except for those in the first chapter.

- Abel, F.A., 176
absolute configuration, 284
Académie des Sciences (France), 130
Aepinus, 93
affinity, 38–9, 42, 295
Aikin, A., 310
alchemy, 1
alkene addition, 298–9
American Chemical Society, 278
amines, 241
Ångström, A.J., 145
Annual Reports of Chem. Soc., 277–305
Anschütz, R., 185, 191
anthocyanins, 293
apparatus, 159–82, 289
archives, 49–65, 151–7
Arfwedson, J.A., 139, 144
Armstrong, H.E., 169, 172–3, 177, 183–5,
190, 196–9, 214–15, 218, 221
aromatic substitution, 209–30, 298
Arrhenius, S., 145–6, 148
Aschen, A.O., 147, 263–4
ascorbic acid, 279–80
asymmetric elements, 282–3
asymmetric synthesis, 288–9
atomic weights, 103, 120–21, 191–3
atomism, 69–70, 72, 97–111, 142
Avogadro, A., 104, 267, 311
- Bayer, A. von, 147, 196, 198, 219, 250–51
Bayer-Villiger reaction, 287
Bakerian Lectures (Davy), 23–4, 28, 59
Bamberger, E., 224
Banks, J., 126
Barton, D.H.R., 257, 271, 299
Baumé, A., 114
B-Club, 309
Beesley, K.M., 265
Benevolent Fund (Chem.Soc.), 319
benzene, 5–6, 186, 210, 220, 230, 239,
278, 291
benzoyl, 92
- Bergman, T.O., 68, 114, 138, 140
Berlin, 233, 236, 238
Berthelot, M., 6, 8, 10, 90, 245, 252–4
Berthollet, C.-L., 43, 68–70, 98, 114–15,
126
Berzelius, J.J., 14, 16, 35, 46–7, 58–9, 62,
67–95, 97–111, 142–6, 213, 277,
311–12
Bijvoet, J.M., 284
Bilicke, C., 267
Bischof, G.G., 263
Black, J., 19
Blanksma, J.J., 218
Bloch, F., 281
Blöde, C.A., 129, 135
Blomstrand, C.W., 135, 137, 146
blowpipe, 140–42
Boerhaave, H., 19
bond, chemical, 239, 307
Bone, W.A., 215
Boscovich, R.J., 61–2
Brande, W., 309, 313
Brandt, G., 139
Bristol, 51–2
Britain, 131–4, 199–200, 233–8, 307–22
British Association for the Advancement of
Science, 21, 309
British Association of Chemists, 319
Brooke, H.J., 310
Brown, A.C., 102, 194, 215–16
Brown, J.C., 10–11
Buffon, J.L.R., 114
Bunsen, R.W., 152, 176, 219
Burlington House, 313, 318
- Cahours, A.A.T., 194, 235
Campbell, I.G.M., 283
carbenes, 290–91
carbohydrates, 284, 292–3
Carlisle, A., 116
carotenes, 293
catenanes, 290

- Chemical Society, 22, 235, 307
 chemical theory of Pile, 25–32, 35, 41
 Chevreul, M.E., 2, 126
 Children, J.G., 131
 chlorophyll, 293
 chromatography, 149, 289
 CIDNP, 281, 299
 circular dichroism, 285
 Claisen, L., 251
 Cleve, P.T., 139, 145
 cohesion, 39
 Collie, N., 20
 combinatorial methods, 289
 combustion apparatus, 174–5
 condenser, reflux, 160
 conformational analysis, 257–76, 284
 Conrad, H.E., 263–5
 contact theory of Pile, 26–7, 38
 Cooper, J.T., 310, 313
 corpuscular theory, 103, 120
 Coulson, C.A., 297
 Cram, D.J., 288
 Crew, H., 10
 Cronstedt, A.F., 139–40
 Crookes, W., 173
 Cumming, J., 309
 cyclo-octatetrene, 290
- Dalton, J., 2, 12, 16, 20, 61, 69, 97–111,
 114, 142, 300, 311
 Daniell, J., 309
 Dannemora, 139
 Darwin, C., 237
 Daubeny, C.G.B., 309
 Davy, H., 23–61, 65, 69–73, 77, 83, 116–17
 Davy, J., 31, 62
 Dawson, D., 238
 de Claubry, G., 99
 de Luc, J.A., 30
 de Morveau, G., 39, 54, 61, 114
 de Villiers, B., 126
 decalins, 261–2, 284
 Deutsche Chemische Gessellschaft, 236
 Dewar, M.J.S., 297
 diamond, 260
 Dickinson, R.G., 267
 Diels-Alder reaction, 286
 disposable affinity, 295
 dissymmetry, 264, 282–5
 distillation in inert atmospheres, 167–9
 Djerassi, C., 281
 Doering, W. von E., 290
 d'Ohsson, C.M., 127–8
 du Fay, C.F. de C., 93
 dualism, 121–2, 135, 143
- Dulong, P.L., 126, 128
 Dumas, J.B., 190, 193–4
 Duppa, B.F., 197, 251
 dyestuffs, 237, 239, 241, 249–50, 270
- Edman, F., 294
 education, 19–22
 Eiloart, A., 263
 Ekeberg, A.J., 138–9
 electricity, nature of, 93–5
 electricity, physiological effects of, 37
 electrochemical theory, 23–95, 107, 142–3
 electrolysis, 32–7, 81–2, 145
 electrolytic transfer, 33, 53
 electron, 295
 elements, discovery of, 144–5
 elements, nature of, 78–83
Elements of Chemical Philosophy (Davy),
 28, 40, 44, 51, 53, 72, 121
 Engels, F., 6, 15
 Erlenmeyer, R.A.C.E., 187–8, 196, 223
*Essai sur la théorie des proportions
 chimiques* (Berzelius), 75–6, 83,
 107–8, 113–36, 142–3
 Esslinger, M., 124
 Everitt, T., 310
- Fabroni, G.V.M., 52
 Faraday, M., 30, 33–5, 133, 237, 245, 313
 Faraday Medal, 316
 'figure of atoms', 100–101
 Finholt, A.E., 287
 Finland, 139–40, 147
 Fischer, E., 251, 284, 294
 Fischer, H., 293
 Flürscheim, B.J., 218–19, 225, 295
 Fourcroy, A.F. de, 114
 France, 16
 Franco-Prussian War, 16
 Frankland, E., 6, 13, 20, 91, 102, 143,
 151–207, 233–5, 247, 249, 251, 254,
 286, 307, 317
 Frankland, F.W., 154
 Frankland, M.N., 153
 Frankland, P.F., 17, 154, 198
 Frankland, S.J., 154
 Franklin, B., 93
 Fry, H.S., 295
- Gadolin J., 139, 144
 Gahn, J.G., 99, 139
 galvanism, 23, 25
 gas collection, 166–7
 Gas, Light and Coke Co., 310
 gas lighting, 237

INDEX

- Gay-Lussac, J.L., 126
 Geneva Conference, 239
 Geoffroy, E.F., 114
 Gerhardt, C., 193, 196
 Germany, 16, 134–5, 197–8, 233, 231–6,
 246, 250, 255, 269–70, 281, 313
Geschichte der Chemie (Kopp), 3
 Gibson, J., 215–16
 Giessen, 177, 233, 246, 312–13
 Gilman, H., 287
 Girtanner, C., 67
 glass, 163, 176–7, 289, 315
 Gmelin, L., 245, 249
 Graebe, C.E., 24, 99
 Graham, T., 309–10
 Great Exhibition, 239
 Griess, P., 249
 Grignard, V., 162, 286
 Grothius, T. von, 33, 56
 Grove, W.R., 310
- Hantzsch, A.R., 264
 Hassel, O., 262, 284
 Haworth, W.N., 266, 279, 292
 heat, 44–6
 Heidelberg, 14, 185
 Hendricks, S.B., 267
 Hennel, H., 245, 310
 Henry, W., 20
 Hermann, F., 250, 263
 Herschel, J., 41, 126
 Hey, D.H., 298
 Hinshelwood, C., 296
 Hirst, E.L., 279
 Hisinger, W., 73, 118, 132
 historiography, 1–22
 Hjelm, P.J., 139
 Hoefler, F., 2, 10
 Hoffmann, A.K., 290
 Hofmann, A.W., 91, 152, 164, 233–43, 247,
 249, 301, 313
 Hofmann Reaction, 241
 Hofmann-Martius rearrangement, 241
 Holleman, A.F., 219–25
 homolytic reactions, 296
Histoire de la chimie (Hoefler), 2
 Huber, G., 292
 Hübner, H., 211–13, 216–17
 Hückel, W., 261–2, 266, 284, 290
 Hughes, E.D., 296
- ignition, 37, 113
 Imperial Copying Press, 155–6
 infra-red spectroscopy, 281
 Ingold, C.K., 255, 265, 296–9
- Ingold, H., 296
 Institute of Chemistry, 316–19
Introduction to modern chemistry
 (Hofmann), 238
 Irvine, J.C., 292
 isomerism, 248
 isomorphism, 100
- Japp, F.R., 13, 20, 191–3
Journal of Chem. Soc., 238, 316, 318, 321
 journals, 230
- Kahlbaum, G.W.A., 16
 Karrer, P., 293
 Kehrman, F., 220
 Kekulé, F.A., 109, 135, 149, 183–207,
 210–13, 218, 221
 Kendrew, J.C., 294
 Kharasch, M.S., 298
 kinetics, 295
 Kipping, F.S., 287
 Knorr, L., 295
 Kohlrausch, F., 145
 Kolbe, H., 91, 143, 159, 162, 176, 188–90,
 195–6, 198, 248, 286
 Kopp, H., 3, 14–15, 20, 22
 Körner, W., 210–11, 216–17, 251
 Kunckel, J., 140
- Laar, P.C., 295
 laboratory notebooks, 50, 54, 59, 157
 Ladenburg, A., 4–6, 20, 85, 191, 291
 Lagerhjelm, P., 124
 Langlet, N.A., 145
 Lapworth, A., 295
 large-ring compounds, 290
 Laurent, A., 193
 Lavoisier, A.L., 67, 113, 138, 140, 213, 245
 le Bel, J.A., 278
 lecture notes, 156–7, 186
Lehrbuch der organischen Chemie
 (Kekulé), 79, 218, 312
 Lemieux, R.U., 292
 Liebermann, C.T., 249
 Liebig, J. von, 16, 18, 176, 233–5, 246–7,
 312–13
 Linstead, R.P., 293
 Lister, J., 199–200
 lithium, 144, 287, 300
 London, 72, 126, 159, 233–8, 309
 Lowe, G., 310
 Löwenhjelm, G., 125
- Macquer, P.J., 114
 Magnus, G., 144

- Maitland, P., 288
 Mallet, J.W., 172
 Manchester, 6, 10, 16, 21, 156–7, 160, 164,
 177–9, 197, 249
 Mann, F.G., 283
 Marburg, 152, 157, 159, 177, 198, 248
 Marcet, A., 109, 128
 Marreco, A.F., 317
 Martius, C.A., 249
 Marx, K., 6, 14
 mass action, 115
 mass spectrometry, 281
 matter, classification, 74, 77
 Mayo, F.R., 298
 Meerwein-Ponndorf reaction, 287
 Meisenheimer, J., 283
 Melville, H., 321
Memoirs & Proceedings of Chem. Soc.,
 315
 Mendeléef, D.I., 21
 Mercer, J., 309
 Merrifield, R.B., 294
 metal carbonyls, 286
 metallocenes, 291
 Meyer, E. von, 8, 20, 190, 192, 195, 197
 Meyer, L., 21
 Michael, A., 272
 microbiology, 174
 Miller, S., 291
 Miller, W.A., 173
 Miller, W.H., 309
 Mills, W.H., 281–3, 288
 mineralogy, 78, 82, 85, 119–20, 127–8,
 138–40
 Mitscherlich, E., 100, 128, 134, 144
 mixed gases, 98
 models, 239, 259, 272–3
 Moelwyn-Hughes, E.A., 296
 Mohr, C.F., 161
 Mohr, E.W.M., 259–61, 268
 molecular overcrowding, 283
 Morgan, G.T., 278
 Mosander, C.G., 139, 144–5
 Muir, P., 8, 15, 17, 265
 Murray, J., 99
 Museum of Economic Geology, 310

 Napoleonic Wars, 113, 140, 184
 Nasmyth, J., 164
 naturalism, 16
Naturphilosophie, 141
 Nesmeyanov, A. N., 287
 networks, 21–2
 New Zealand, 154
 Newcastle Chemical Society, 317

 Newton, I., 63
 Nicholson, J.C., 155
 Nicholson, W., 60, 107, 116
 Nilson, L.F., 139, 145, 147
 nitriles, 160
 NMR spectroscopy, 281
 Nobel, A., 146–7
 Nodder, C.R., 282
 Noelting, E., 212–14, 222
 nomenclature, 74, 231–9
 notation, 179, 194–5

 Odling, W., 185, 195
 optical rotatory dispersion, 285,
 organic chemistry, 86–93, 119, 143–4, 241,
 245–56, 277–305
 organometallic compounds, 91, 159–60,
 173, 187, 286–7
 Ostwald, F.W., 8, 14, 17, 145
 Owens College, Manchester, 6, 152, 155,
 160, 197
 oxidation, 287–8
 oxides, 83–4
 oxygen, 71, 138

 Paracelsus, 12
 Paris, 119, 125, 128, 156, 235
 Parliamentary Links Scheme, 322
 Partington, J.R., 10, 278
 Pauling, L., 297
 Penny Post, 315
 Perkin, W.H., 249–50
 Perkin, W.H. jr., 251, 271, 278
 Persoz, J.F., 131
 Perutz, M.F., 294
 Pharmaceutical Society, 314
 Phillips, R., 310, 313
 phlogiston, 67, 113
 physical chemistry, 145, 148
 Pictet, A., 279
 Picton, H.W., 17–18
 plant pigments, 293
 Playfair, L., 157, 159, 194
 Poggendorf, J.C., 10, 235
 polysaccharides, 292
 Pontin, M.M., 73
 Pope, W.J., 319
 Porrett, R., 310
 potassium, 24
 Prelog, V., 288
 pressure, heating under, 162–6, 234
 Priestley, J., 19, 63–4, 93, 138
 priority dispute, 186–91
 professionalism, 316–17
 proteins, 294

INDEX

- Proust, L.G., 114
 Purdie, T., 292
 Putney, 156, 159–60
 pyroelectricity, 44–6
- quantivalence, 239
Quarterly Journal of Chem. Soc., 315
 Queenwood, 156, 159, 162, 175, 177
- radicals, 83, 88, 92, 160, 162, 166–7, 297–8
 railways, 315
 Ramsay, W., 11
 reductions, 287–8
 refractometry, 280
 Richter, J.B., 75, 98, 114
 Rinman, S., 140
 Ritter, J.W., 55–6
 Robinson, R., 293, 296–8
 Roget, P.M., 126
 Roscoe, H., 12, 16, 22, 250
 Rose, G., 134, 144
 Rose, H., 128, 134, 144
 Royal College of Chemistry, 156, 160, 179, 233–9, 246–7, 313
 Royal Institution, 23–4, 72, 133–4, 152, 156, 160, 178, 197, 239, 250,
 Royal School of Mines, 156, 234
 Royal Society, 23–4, 71, 134, 199–200, 322
 Royal Society of Chemistry, 321–2
 Royal Swedish Academy of Sciences, 118–19, 129, 137, 141, 147
 Russell, W.J., 307–8, 315
 Russia, 136
 Ruzika, I., 252, 270, 290
- Sachse, H., 258–60, 262–4, 268–9, 272–3
 salts, 84–6
 Sanger, F., 294
 Scheele, C.W., 138–9, 245
 Schopenhauer, A., 135
 Schorlemmer, C., 5–7, 12, 14–17, 194
 Scotland, 132–3, 309
 Sefström, N.G., 144
 selenium, 142
 sewage, 174
 Smith, R.A., 173
 Sobrero, C.F., 144
 Society of Chemical Industry, 10, 238, 319–21
 Söderbaum, H.F., 118
 sodium, 24
 Spence, F.S., 157
 Stacey, M., 292
 Stas, J.S., 103
 stereoisomerism, 282–5
 stereoselectivity, 288
 Stockholm, 139
 Stoll, M., 252, 270
 Stone, F.G.A., 283, 287
 strainless rings, 257–76
 structure, 279–82
 structure theory, 195–6, 250–52
 Svanberg, A.F., 145
 Svedberg, T., 148
 Swab, A., 140
 Sweden, 137–49
 symbolism, atomic, 101–3
 synthesis, 241–3, 245–56, 285–9
- Talbot, W.H.F., 312
 teleology, 89–90
 Thenard, L.J., 126, 130, 235
 theoretical organic chemistry, 294–7
 Thiele, F.J.K., 295
 Thomas, J.W., 173
 Thomson, T., 2, 10, 12, 18–19, 99–100, 106–7, 313
 thorium, 142
 Thorpe, T.E., 7, 10, 15, 17, 22, 265
 Tilden, W., 8, 10, 13
 Tiselius, A., 116, 148–9
 Todd, A.C., 293
 trade unionism, 314
 Truman, E.B., 173
 Turner, E., 132–3
 types, 193–5, 198
- ultra-violet spectroscopy, 280–81
 Uppsala, 137–8, 140, 145, 148
 Ure, A., 132
 USA, 28, 239, 300
 utilitarianism, 139
- valence isomers, 291
 valency, 91, 186–91, 197
 vanadium, 144
 van't Hoff, J.H., 145, 278
 Vauquelin, L.N., 130
 Victoria, Queen, 17, 233–4
 Viehe, H.G., 291
 visible spectroscopy, 280
 vitalism, 89–90
 Volta, A., 25, 37, 54
 Voltaic pile (cell), 25–32, 38, 52–5, 116
 volume theory, 106–7
 Vörländer, D., 214, 217, 295
- Walden, P., 9
 Walling, C., 299

INDEX

- Wanklyn, J.A., 170–73
Ward, W.J., 176
Warrington, R., 311, 313, 315
Warren, E.H., 283
water analysis, 169–74, 237
Waters, W.A., 298
Werner, A., 218, 263–5
Whewell, W., 134
Whiggishness, 12, 17–19, 210
Wilhelmy, L.F., 295
Wilkinson, G., 291
Williamson, A.W., 185, 195
Willstätter, R., 290, 293
Wislicenus, J., 147
Wittig reaction, 287
Wöhler, F., 92, 124, 134, 144, 245–8
Wollaston, W.H., 26, 54, 69, 98, 126
Woodward, R.B., 285, 291, 299–300
Wurtz, A., 185–7, 195, 246, 251
X-Club, 156, 317
X-ray crystallography, 279, 284
Young, T., 117
“ytterbium”, 139
Ziegler, J., 290
zirconium, 142