

SUBJECT INDEX, NUMBERS 1 - 20

Volume numbers are given in *italics* (only the first number for double issues, such as 13/14), followed by page numbers.

- A**
 AAAS 20, 33
 Aachen, Tech. Un. 4, 4
 Abbott, B. 11, 29, 56
 Abbot, H. 9, 18
 Abbot-Michael, H. 8, 15
 Abderhalden, E. 17, 3, 4, 6
 Abegg, R. 13, 48
 Academie Française 5, 12
 Acad. Sci., French 5, 12-17, 20, 28, 34
 Accum, F. 10, 9, 27, 28; 11, 69
 Acetamide, Kekulé's structure 12, 12
 Achard, F. 4, 12
 Acide nitreux, 3, 8
 Acidity function 19, 38
 Acids, Lavoiser theory of 5, 6, 7, 42-47
 Acree, S. F. 19, 50, 53
 Acylous 19, 37, 40
 Adam, N. K. 15, 2
 Adams, C. B. 20, 25
 Adams, R. 4, 31; 6, 22; 13, 42
 Addison, J. 10, 25
 Adirondack Iron Works 17, 47-49, 54
 Admiralty, 11, 37, 38
 Affinity units 12, 11, 12; 15, 52, 53
 Agassi, J. 11, 16, 66
 Agfa 9, 9
 Agricola, Georgius 8, 5; 12, 3-9; 7, 41, 42
 Agricultural Hall 3, 18, 19
 Air, nature and properties, 3, 21
 Albany Academy 12, 26
 Albemarle Furnace Co. 9, 21
 Albert, Prince 11, 30, 66
 Albright & Wilson 19, 7
 Albumin 17, 2
 Alchemy 13, 19-26
 Alcoa 17, 19
 Alizarin 9, 8, 9
 Allotropism 6, 30, 31
 Aloe 10, 25
 Alpha particle 11, 96
 Altempohl, D. 17, 19
 Alum 3, 5, 7
 Alumina process, Bayer 17, 15-19
 Alumina process, LeChatelier 17, 15-17
 Aluminum, production 20, 24
 Alusuisse 17, 19
 Alyea, H. N. 10, 3, 8, 14
 Am. Assn. Adv. Sci. 6, 15, 16, 18-20, 25; 8, 17
 Am. Assoc. Adv. Women 8, 17
 Am. Chem. J. 6, 17, 19; 13, 41-45
 Am. Chem. Soc. 3, 16, 17; 6, 16, 18; 20, 33-39
 Am. Chem. Soc. NY 6, 15, 17-20
 American Chemist 12, 32
 Am. J. Sci. 15, 9, 12
 Am. J. Sci. Arts 2, 7; 12, 36, 37; 15, 9
 Amherst College 4, 6
 Amine oxides 20, 11, 12
 Amino acids 17, 1-7
 Ammonia, determination 20, 21, 22
 Ampère, A.-M. 11, 56
 Amyott, T. 11, 19
 Anaconda Copper Mining Co. 20, 63-67
 Anaxagoras 5, 18, 44
 Anchimeric acceleration 19, 35, 40, 44
 Anderson, C. 11, 38, 66
 Anderson, R. 4, 26
 Anecdotes, use of 7, 26-32
 Anger, V. 17, 31
 Aniline black 9, 8
 Aniline yellow 9, 9
 Anionoid 19, 35, 37, 39, 40
 Anionotropy 19, 37
 Annals of Science 2, 13
 Antimony, regulus of 1, 3
 Antiphlogistic theory 4, 8-10; 5, 4, 5, 18, 37, 39-41, 44; 8, 5
 Antonoff, G. N. 4, 17
 Apparatus, Lavoisier's 5, 31-34
 Arago, F. 11, 33, 52; 13, 36
 Arago's effect 11, 52
 Arbuzov, A. E. 7, 26; 17, 22, 26, 27
 Arbuzov, B. A. 7, 25, 26
 Arbuzov Museum 7, 26
 Archeological chemistry 1, 17, 18
 Archimedes screw 8, 25
 Archives, HIST 3, 26
 Ardeer 9, 6
 Arendt, R. 10, 10-12
 Argilla vitriolata 3, 8
 Argon 5, 5
 Aristotle 12, 7
 Armstrong, E. V. 2, 11
 Armstrong, H. E. 7, 5, 6, 9; 13, 30; 19, 15, 23; 20, 10
 Arndt, F. 19, 27, 28
 Aromatic substitution 19, 26-29
 Arrhenius, S. 3, 17; 6, 26; 7, 5, 27, 30, 31
 Arsenic 5, 16, 17, 31, 33
 Arsenic poisoning, animal 20, 64, 65
 Artifacts, chemical 1, 8, 9; 2, 19-21
 Assaying, Am. Iron 17, 41-55
 Assoc. Off. Agr. Chemists 6, 15, 16
 Astbury, W. T. 7, 8
 Athenaeum 11, 37
 Atomic Energy Commission 6, 21
 Atomism, 11, 33; 15, 45
 Atwater, W. O. 3, 20
 Atwood's machine 8, 23, 25
 Aughey, S. 17, 9
 Aurora tube 8, 26
 Austin, P. T. 6, 17
 Autenrieth, J. H. F. 13, 29
 Author's Guide 7, 37
 Authors, Instruction for 15, ii
 von Auwers, K. 19, 23
 Avenin 17, 2
 Avogadro, A. 8, 6
 Avogadro constant 11, 93, 95, 96, 98, 99
 Avogadro hypothesis 13, 63, 64
 Azo dyes 9, 9
 Azot 3, 10
 d'Azyr, F. V. 4, 8
- B**
 Babbage, C. 11, 19, 49, 57
 Babcock, C. L. 6, 9
 Babington, W. 11, 20
 von Babo, C. H. L. 8, 35
 Babo generator 8, 34, 35
 Bache, F. 5, 45; 15, 27, 28
 Bacon, C. W. 9, 17
 Bacon, F. 5, 19; 13, 36; 20, 5
 Bacon, J. 12, 37
 Bader, R. F. W. 6, 10
 von Baeyer, A. 7, 20, 21, 23, 30; 9, 8, 16; 12, 11; 13, 35; 17, 3
 Bailey, E. H. S. 6, 16
 Balance, chainomatic 8, 12-14
 Balance, Watkins and Hill 8, 23
 Balances 20, 48, 49
 Balard, A. J. 20, 18
 Balloon, hot-air 10, 37, 38

- Balmer, J. 8, 6
 Bancroft, W. D. 6, 22
 Banks, J. 11, 18, 20, 25, 36
 Banthrope, D. 19, 77, 78, 81
 Banting, F. G. 6, 4
 Barbarosa, P. E. F. 17, 33
 Barber, S. 6, 9
 Bardeen, J. 9, 11
 Bargallo, M. 4, 23
 Barker, G. F. 12, 35-38
 Barnes, W. H. 7, 6
 Barreswil, L. C. 13, 36
 Barrett, S. 19, 7
 Barrow, H. 8, 12; 15, 4
 Barrow balance 15, 4, 6, 7
 Bartlett, P. D. 4, 31; 19, 45, 48, 50-53
 Bartley, E. H. 6, 18
 Barton, D. H. R. 6, 12
 BASF 9, 8
 Basyous 19, 37, 40
 Basyrin, M. 20, 53
 Bauer, E. 19, 62
 Bauer, G. 12, 6
 Bauer, N. 6, 12
 Bauxite 17, 17-19, 33
 Bayer, K. J. 17, 15-19
 Bayerische Staatsbibliothek 4, 4
 Bayley, J. 11, 19
 Béchamp, A. 9, 8
 Becher, J. 11, 68
 Beck, L. C. 6, 24; 8, 24; 12, 26, 27
 Beck, T. R. 12, 26
 Becker, C. A. 8, 13
 Beckman, A. 9, 11
 Beckman Center for History of Chemistry 1, 16; 4, 25, 32
 Becquerel, A. H. 8, 6
 Beehive 8, 34
 Beer, P. 4, 18
 Beet sugar 17, 10, 11
 Behrend, R. 15, 7
 Beilstein, F. 3, 17; 17, 16
 Bell Labs. 9, 11
 Beloit College 4, 6
 Belvedere Iron Co. 17, 49
 Benedict, F. G. 10, 11; 17, 6
 Benfey, O. T. 13, 3-15, 46
 Benjamin, M. 6, 18
 Benzene, discovery 11, 5, 6 52
 Benzene, stereochemical models 12, 10-21
 Benzidine rearrangement
 Bergman, T. O. 5, 4, 28; 17, 45
 Berkshire Med. Inst. 12, 26
 Berl, E. 20, 55
 Berlin, T. 6, 8, 10-12
 Berlin iron 17, 51
 Berlin Un. 4, 4, 5
 Bernal, J. D. 7, 8-10
 Bernhard, A. 9, 16
 Bernières 4, 12
 Berthelot, M. 5, 19; 6, 32, 33; 12, 17; 19, 58, 59, 62
 Berthollet, C-L. 3, 7-9; 4, 3; 5, 4, 5, 7-9, 32, 34; 8, 5
 Berzelius, J. J. 3, 10; 4, 3; 5, 5; 6, 31; 8, 5, 6, 9-12; 11, 22, 63, 73; 13, 31-33, 37, 52; 20, 11
 Bessemer process 17, 48, 51, 53
 Best, C. H. 6, 4
 Bewin, 3, 23
 Bibles, Faraday's 11, 40-46
 Bibliography, 1988 4, 27
 Bibliography, 1989 6, 37ff
 Bibliography 1990 9, 25
 Bicarburet of hydrogen (benzene) 11, 6, 52-54, 62, 63
 Bielfeldt, K. 17, 19
 Biot, J. B. 5, 8; 20, 51
 Bird, G. 11, 79
 Biringuccio, V. 17, 41, 42
 Bischoff, C. A. 15, 35
 Bismarck brown 9, 9
 Black, J. 5, 6, 19, 20; 10, 5, 6, 35; 15, 4, 15-17; 20, 5
 Black, N. H. 19, 51
 Blast furnace 17, 42, 44, 48
 Blatt, A. H. 19, 51
 Bleu de Lyon 9, 8
 Bloomery process 17, 43-45, 47-50
 Blowpipe 11, 81-83, 85; 17, 45
 Blowpipe, oxyhydrogen 4, 11-15
 Blowpipe, Plattner 2, 21
 Bobiere, P. A. 20, 18-23
 Bochart de Saron, J. B. G. 4, 11-14
 Bodenstein, M. 4, 16
 Bodley, R. 17, 11
 Bohr, N. 13, 48
 Bologna stone 3, 21
 Bolton, H. C. 3, 20; 6, 19
 Bonding theory, Lewis-Langmuir 15, 37
 Bonhoeffer, K. F. 6, 29
 Bonjour, J. F. 5, 4
 Bonn Un. 4, 4, 5
 Bones and stones 2, 14, 15; 3, 24
 Book Notes 1, 14, 15; 2, 22; 3, 26; 4, 29; 6, 41ff; 7, 33-35; 8, 27-30; 9, 32; 10, 39; 12, 39-45; 13, 66-72; 17, 57-64; 19, 94, 95; 20, 68-72
 Boone, D. 8, 22
 Born, M. 6, 8; 13, 48; 19, 13
 Borrichius, O. 13, 19
 Boscovich, R. J. 11, 15-17, 54
 Bosshart, J. 20, 55
 Bossingault 13, 36
 Böttger, R. 3, 23
 Bouillon-Lagrange, E. J. B. 5, 4, 5
 Boulday, P. 8, 10
 Bouquet, J. J. 20, 20
 Bourdelain, L.-C. 10, 4, 7
 Bourguet, M. 19, 59
 Bouton, R. 17, 11
 Bowman, W. 6, 17
 Boxer Rebellion 12, 5
 Boye, M. 17, 54
 Boyle, R. 4, 12; 5, 5, 19, 20, 26, 46; 8, 5; 13, 19, 24; 15, 20-22
 Boyle's air pump 15, 21, 22
 Boyle's law 15, 21
 Boys, C. V. 11, 88
 Bozorth, R. 7, 5
 Brady, O. L. 19, 5
 Bragg, W. H. 7, 5, 6; 19, 13; 20, 14
 Braile, N. 17, 33
 Bramson, C. 13, 44
 Branch, G. 20, 10
 Brande, W. T. 10, 36; 11, 17, 25, 53, 54, 65, 66, 78, 79, 81, 82, 84; 12, 25
 Branner, J. C. 12, 3, 6, 9
 Brass, analysis 20, 20, 21
 Brattain, W. 9, 11
 Bravais, A. 12, 20
 Bray, W. C. 7, 3, 4
 Bread, fermentation in 8, 19, 20
 Bredig, G. 4, 16-18
 Breneman, A. A. 6, 19
 Breslau Un. 4, 4, 5
 Brett, R. H. 11, 79
 Brevium 4, 18
 Bridge, J. L. 9, 16, 18
 Bridgman, P. W. 19, 19
 Brit. dyestuffs industry 9, 7-11, 14
 Brit. Soc. Chem. Ind. 6, 16, 18, 19
 Brockway, L. L. 6, 7
 Brockway, L. O. 7, 7
 Brodie, B. C. 4, 6; 6, 29, 31
 deBroglie, L. 19, 62
 Bromine, discovery 20, 18
 Bronze, analysis 20, 19, 20
 Brooke, H. J. 11, 82
 Brooke, Simpson & Spiller 9, 8
 Brough, J. C. 12, 33
 Brown, A. Crum 13, 35
 Brown, H. C. 19, 53
 Brown, L. 8, 23, 26
 Brown, S. 8, 22
 Brown Inst. Co. 10, 31
 Browne, C. A. 1, 13; 3, 12; 6, 3; 13, 44
 Buchenwald 19, 59
 Bucquet, J-B. 4, 8, 11
 deBuffon, Conte G. 5, 23
 Bullock, J. L. 9, 18
 von Bunge, G. 17, 2
 Bunsen, R. 4, 3, 5, 6; 7, 19-22; 8, 6; 13, 31, 34; 15, 6, 7; 17, 16
 Bunsen burner 11, 70
 Bunsen cell 15, 6, 7
 Bunton, C. A. 19, 7
 Bureau of Mines 13, 41, 42

- Burkhardt, G. N. 20, 14
 Burns, R. 10, 35, 38
 Bush, J. 8, 23
 Buswell, A. M. 7, 7
 Butadiene, electronic structure 20, 13
 Butlerov, A. M. 7, 20, 24-26; 13, 35; 17, 21-25, 27, 28
 Butlerov Museum 7, 24-26
- C**
 Cady, G. H. 7, 8
 Caffeine 17, 33
 Cahours, A. 13, 34
 Calcination 8, 4, 5
 Calcium, reagent for 17, 37
 Caldas, A. 17, 33
 Caldwell, C. 8, 22, 23
 Caley, E. 3, 11
 Calomel electrode 10, 32, 34
 Caloric 3, 10; 5, 4-7, 22, 43; 8, 5; 9, 22
 Calorimeter, ice 5, 32
 Cal. Petroleum Co. 15, 11
 Calvin, M. 19, 49; 20, 10
 Calx, gold 3, 8
 Calx, lead 5, 25
 Calx, mercury 5, 27
 Cambrian Iron Works 17, 52, 53
 Cambridge Un. 4, 3, 6
 Camera lucida 8, 23
 Candle, chem. and phys. of 11, 7, 8, 30, 31
 Cannizzaro, S. 3, 17; 8, 6; 12, 12, 13; 13, 63, 64
 Cannon, oxygen-hydrogen 10, 7, 8
 Caoutchouc 11, 64
 Carbon monoxide 5, 17
 Carburet 11, 84
 Carius, G. L. 12, 13
 Carmack, M. 6, 11
 Carnegie Inst. Wash. 17, 4
 Carnot, S. 5, 6
 Caro, H. 9, 8-10
 Carwheel Mine 17, 51
 Carnot, S. 5, 6
 Cassell Cyanide Co. 19, 2
 Cather, Willa 17, 12
 Cationotropy 19, 37
 Cavello, Tiberius 1, 3, 10; 2, 22, 23; 3, 21
 Cavendish, H. 5, 5, 40; 11, 88
 Celtic antiquities 3, 24, 25
 Center for History of Chemistry 1, 16
 Chadwell, H. 7, 6
 Chadwick, J. 4, 17
 Chair of HIST, message from 3, 27; 6, 43
 Chan, F. L. 17, 34
 Chandler, C. F. 2, cover, 19-21; 3, 16; 4, 6; 6, 19, 20; 12, 32
 Chandler, W. H. 12, 32
 Chandler Chemical Museum 2, 19
 Chaos 13, 25, 26
 Chaptal, J. A. C. 5, 36; 8, 4
 Charcoal 9, 21
 Chargraff, E. 17, 31
 Charles, J. 5, 32
 Chauvinism 13, 29-37
 Chazel, A. 8, 26
 deChazelle, Mme. Comptes 5, 33
 Chelation 7, 6, 9
 Chem. Bull. 6, 22
 Chemical Age 12, 34
 Chemical Foundation 13, 43, 45, 46
 Chemical Gazette 12, 30
 Chemical genealogies 3, 26; 8, 33
 Chemical industry, American 13, 40, 41, 43
 Chemical News 12, 30-34
 Chemical revolution 20, 1-8
 Chemical Revolution, Bicentenn. Symp. 5, 3ff
 Chemical revolution, books of 3, 7-11; 4, 8-11; 5, 34-36
 Chemical Warfare Serv. 13, 41-43
 Chemistry 13, 12
 Chemists' Club 13, 44
 Chem. Soc. (London) 20, 44
 Chem. Soc. Phila. 5, 44
 Chem. Soc. Washington 6, 15-17, 19
 Chester, A. H. 17, 48
 Chestnut St. Female Sem. 17, 10
 Chevalier, C. 8, 24, 25
 Chevreul, M. E. 5, 9
 Chibnall, A. C. 17, 6, 7
 Chicago Exposition 3, 25
 Chicago World's Fair 3, 2, 16-21
 Children, J. G. 11, 20
 Children's voltaic battery 11, 78
 Children's voltaic pile 11, 78
 Chittenden, R. H. 17, 5
 Chladni, E. F. F. 11, 52
 Christian, Prince of Denmark 11, 17
 Christmas Lectures, Faraday 11, 7, 8, 37; 12, 32
 Chrysaniline yellow 9, 8
 Chrysodine 9, 9
 Chymia 2, 11, 13
 Cinchona 11, 93
 Cineres clavellati 3, 8
 Cine-substitution 19, 36
 Clarendon, Earl 11, 30
 Clark, J. 9, 15
 Clark, R. H. 9, 17
 Clark, T. H. 9, 16, 18
 Clark, W. S. 4, 5, 6
 Clark Un. 9, 15-19
 Clarke, E. D. 11, 79-85
 Clarke, F. W. 3, 16, 20; 6, 15, 16, 18-20; 7, 17, 18
 Claus, A. 12, 13
 Claussen, W. H. 7, 8
 Claycop 4, 31
 Cleaveland, P. 6, 24
 Clemmensen reduction 6, 27
 Clepsydra 8, 3, 4
 Cloud, J. 2, 9
 Coal tar 9, 6, 7
 Cobalt (III) ammines 19, 66-70
 Cobalt complexes, resolution 20, 50-56
 Coffee 17, 33
 Cohn, E. 17, 6
 Cohnheim, O. 17, 4
 Colbert, J. B. 5, 12, 13
 Cold fusion 4, 32
 Coleridge, S. T. 11, 32
 Collège de France 5, 9
 Collège Mazarin 5, 12
 Collie, J. N. 19, 3
 Colligation 19, 36, 40
 Collins, E. 10, 26
 Collip, J. B. 6, 4
 Colloids 19, 72-75
 Columbia School of Mines 4, 6
 Columbian Chem. Soc. Memoirs 5, 43
 Columbian Exposition (Chicago World's Fair) 3, 2, 16-21
 Columella, M. 12, 8
 Combustion bulb 5, 33
 Combe, T. 11, 17
 Combustion train 2, 20
 Computers 9, 11-13
 Comstock, J. L. 2, 8
 Comstock Lode 15, 11
 Conant, J. B. 6, 3; 13, 42; 15, 37; 19, 20, 22, 23, 25, 48, 50-52; 20, 11
 de Condillac, Abbé Bonnot 3, 7, 9; 5, 34
 deCondorcet, M. J. A. N. C. 5, 7, 13
 Conn. Agr. Station 17, 1, 2, 6
 Conrad, H. E. 20, 51
 Conservation of mass 5, 18-24
 Conservation of matter 13, 27-29
 Conservatoire National des Arts et Métiers 5, 31, 33
 Continental Chem. Soc. 3, 16; 6, 15-21
 Cooke, J. P. 2, 17, 18; 6, 19
 Coons, C. C. 10, 33
 Coordinate covalent (dative) bond 20, 12
 Cooper, T. 2, 9; 5, 41; 8, 22
 Cope, J. R. 8, 20, 21
 Copley medal 11, 20; 20, 18
 Corey-Chaykovsky reaction 15, 61
 Cornish crucible 11, 79
 Corpuscular alchemy 13, 19-26
 Coryell, C. D. 20, 37
 Coulson, C. A. 6, 8, 9; 19, 62
 Couper, A. S. 7, 20; 13, 35

- Courtois, B. *11*, 56
 Coxe, J. R. *5*, 44, 45
 Crafts, J. M. *9*, 17
 Crith *2*, 16-18
 Crawford, B. *6*, 12
 Creswell, D. *11*, 19
 Croft, H. *12*, 30
 Croker, J. W. *11*, 37
 Crookes, W. *8*, 6; *11*, 8, 28, 65; *12*, 30-34
 Crosland, M. *4*, 25
 Cross, A. *11*, 29
 Crosse, C. *11*, 29
 Crotenoid *19*, 37, 40
 Crotonoid *19*, 37, 40
 Cryolite *17*, 17
 Cubical atom *20*, 12, 13
 Cullen, W. *10*, 37; *15*, 15
 Cummings, J. *11*, 83
 Cupellation *12*, 8
 Cupreous nitre *4*, 31
 Cupreous nitre *3*, 21
 Curie, I. *3*, 15
 Curie, Marie S. *4*, 16; *6*, 8; *8*, 6; *20*, 52
 Curie, Maurice *4*, 18
 Curie, P. *8*, 6
 Curie, T. J. *3*, 15
 Curtius, T. *4*, 16, 17
 Cutbush, J. *10*, 7
 Cutter, W. P. *6*, 17
 Cuybush, J. *8*, 18
 Cyclotron *6*, 8
- D**
 Dacorso, G. F. *17*, 33
 Daguerreotype *8*, 26
 Dains, F. *3*, 11
 Dalton, J. *4*, 30; *5*, 3, 6; *8*, 5, 6; *11*, 20, 54, 56, 95; *12*, 24; *13*, 37, 61, 62
 Dana, S. L. *20*, 25
 Dancy, F. B. *6*, 17
 Daniell, J. F. *11*, 88, 93
 Daniels, F. *7*, 14; *20*, 36, 37
 d'Arcet, J. *4*, 12
 Darmstadt Tech. Un. *4*, 4
 Darwin, C. G. *4*, 17; *6*, 5, 6
 Darzens, G. *15*, 59-64
 Darzens reaction *15*, 60, 61
 da Silva, C. P. J. *17*, 33
 Daudel, R. *19*, 62
 Daumus, M. *4* 24; *20*, 4, 7
 Davenport, B. F. *6*, 17
 Davis, T. L. *1*, 13
 Davisson, G. *10*, 4; *13*, 61, 62
 Davisson, W. *10*, 3
 Davy, H. *5*, 5-7, 44-46; *6*, 27; *8*, 5; *10*, 6; *11*, 3, 16-23, 25, 36-38, 53-56, 59-61, 63, 65, 73, 80-85, 87, 89; *20*, 19
 Davy, J. *11*, 22, 23
 Davy, Lady *11*, 85
 Davy Medal *13*, 65
 Davy safety lamp *8*, 23
 deBoer, J. H. *13*, 48, 49
 Debray, H. *4*, 14
 Debus, A. *4*, 26
 Debye, P. *7*, 6; *19*, 28; *20*, 51
 Deer Lodge Valley Farmers Assn. *20*, 62, 63
 Dehlinger, U. *13*, 51
 De la Rive, A. *11*, 28-30, 46, 87
 Deleuil, J. A. *8*, 26
 Demant, V. *17*, 31
 Demichel, A. *8*, 13, 14
 Democritus *5*, 19; *8*, 5; *11*, 94; *13*, 60
 Demonstrations, chemical lecture *10*, 3
 de Morgan, A. *11*, 34
 Dephlogisticated air *5*, 22, 27; *6*, 26
 Derbyshire *9*, 6
 Despretz, C. M. *20*, 18
 Deutsches Museum *4*, 3
 Deville, H. S-C. *4*, 14; *6*, 34; *13*, 36
 de Walque, F. *11*, 73
 Dewar, J. *2*, 4, 5; *12*, 13; *15*, 31, 32
 Dewar -complex theory *19*, 78, 80-84, 87
 Dexter Award *1*, 13, 14; *2*, 11-14, 24; *3*, 11-15; *4*, 23-26, 31; *6*, 3-7, 44; *9*, 3; *10*, 16; *12*, 3, 46; *13*, 73; *15*, 1; *17*, 1; *20*, 1, 48
 Dexter Chemical Corporation *1*, 13-15
 Diazotization *9*, 9
 Dickinson, R. *7*, 6
 Dickinson College *5*, 41
 Dihydrol *7*, 7
 Dixon, H. B. *7*, 14
 Döbereiner, J. W. *4*, 3; *13*, 62, 63
 Dobson, T. *10*, 34-37
 Doktorvater *4*, 4, 5, 7
 Dolland, G. *11*, 37
 Donnan, F. G. *19*, 2-5, 7, 8, 72
 Doremus, C. A. *6*, 19
 Druce, J. F. G. *12*, 34
 Drude, P. *13*, 51
 Drummond, Col. P. *11*, 38, 39
 Dualism *8*, 9, 11
 Duckworth, C. W. *1*, 12, 13
 Dudley, C. B. *6*, 18
 Dulong, P.-L. *13*, 36, 64
 Dumas, A. *13*, 62, 63, 65
 Dumas, J.-B. *7*, 20, 22; *8*, 8; *11*, 60; *13*, 32-36; *20*, 18
 duPont, E. I. *5*, 9, 33
 Dupont, G. *19*, 60
 duPont, P. S. *5*, 9, 33
 duPont, V. *5*, 9, 33
 DuPont Co. *13*, 41
 Durham Iron Works *17*, 52, 54
 Duveen, D. I. *2*, 12
 Dyestuffs *9*, 7-10
- E**
 Easley, C. W. *9*, 16, 18, 19
 Eaton, A. *10*, 7, 8
 Ebert, H. *13*, 48
 École Polytechnique *5*, 9
 Edelstein, S. M. *1*, 13, 14
 Edelstein Center for Hist. Phil. Sci. *4*, 32
 Edestin *17*, 2, 4
 Edge displacement *19*, 67
 Edgewood Arsenal *13*, 42
 Edison, T. A. *6*, 16
 Editor, letter from *15*, i
 Editor, letters to *3*, 3
 Editor's Desk *1*, 3; *2*, 3; *3*, 3
 Edwards, M. F. *6*, 17
 Ehrmann, F. *4*, 12, 13
 Einstein, A. *11*, 4, 6, 52; *19*, 13
 Eka-rhenium *3*, 15
 Elderhorst, W. *4*, 7
 Electrochemistry, *11*, 5, 6, 86-92
 Electrodes, *10*, 31
 Electrogravimetry *7*, 17-19
 Electrolysis, *11*, 5, 14, 54, 86-92, 94
 Electrolysis of water *7*, 39
 Electromagnetic induction *11*, 76
 Electromagnetic rotation *11*, 20, 21
 Electromeric effect *19*, 22, 26-29, 33, 35; *20*, 13
 Electrometer, pith-ball *8*, 23
 Electronegativity scale, Allred-Rochow *13*, 56
 Electronegativity scale, Pauling *13*, 53
 Electronic strain *19*, 27, 28, 33
 Electrotropy *19*, 60
 Element 61 *1*, 9
 Element 93 *3*, 15
 Elements, four Greek *8*, 3, 4
 Eli Lilly Co. *6*, 4
 Eliot, J. *17*, 44
 Elixir *13*, 21
 Emeléus, H. J. *19*, 16; *20*, 43
 Emery, A. *20*, 34-38
 Emich, F. *17*, 36
 Emma Silver Mining Co. *15*, 12, 13
 Emmens, S. H. *12*, 33
 Empedocles, four elements of
 Empire Iron & Steel *17*, 52
 Empire Gold & Silver Mining Co. *15*, 11, 12
 Encyclopedia Britannica *10*, 34-38
 Endemann, H. *4*, 7
 Eng. Alch. Soc. *15*, 35
 Engelhardt, F. E. *6*, 17
 Engler, E. *3*, 19
 Eolipile *8*, 23
 Epicurus *8*, 5

- Epsom salts 3, 8
 Equivalents, electrochemical 11, 92, 93
 Erdmann, O. L. 4, 3
 Erdtman, H. 19, 45
 Erlangen Un. 4, 4, 5
 Erlenmeyer, E. 3, 17; 13, 34, 35
 Errara, J. 7, 10
 Erzgebirge 12, 6, 7
 Essentialism 6, 5
 Eureka Mine 15, 11
 Evans, M. G. 19, 15
 Evans, P. N. 9, 16
 Evans, W. V. 6, 21
 Everest, G. 15, 6
 Everhart, E. 6, 17
 Ewell, B. S. 9, 25
 Ewell, J. 9, 24
 Ewell, R. S. 9, 25
 Ewell, T. 9, 22-25
 Exposition Universelle, Paris 3, 17
 Externalists 6, 3
 Eyermans, J. 6, 18
 Eyring, H. 19, 15, 48
- F**
- Fackenthal, B. F., Jr. 17, 54
 Fajans, Edgar 6, 12, 15
 Fajans, K. 4, 15-23; 6, 7-15; 13, 48
 Fajans, Stefan 6, 12, 13
 Falcon loom 15, 6
 Falk, K. G. 13, 48; 15, 38
 Falkirk 9, 6
 Fall, P. S. 8, 23, 25, 26
 Farad 11, 91, 98
 Faraday (unit) 11, 91, 92-99
 Faraday, J. 11, 41, 46
 Faraday, M. 10, 6, 8; 11, 3-104; 15, 4, 5
 Faraday, S. 11, 40, 41, 46, 48, 65
 Faraday effect 11, 6
 Faraday Museum 11, 4, 86; 15, 5
 Faraday Soc. 11, 5
 Faraday Soc. Discussions 19, 13-17, 33, 34, 36
 Faraday's Law 11, 95
 Farber, E. 2, 13, 14
 Favorskii, A. E. 17, 28
 Fed. Food, Drug, Cosmetic Act 10, 30
 Fehling, H. 6, 30
 Feigl, F. 17, 31-38
 Feigl, H. E. 17, 32
 Feigl, R. F. 17, 31-33, 35
 Feinstein, R. N. 20, 37
 Fermentation 5, 24, 29, 36
 Fermi, E. 3, 15
 Fertilizers, analysis 20, 18
 Feuchtwanger, L. 17, 55
 Fieser, L. F. 19, 51, 52
 Fischer, E. 4, 5, 17; 6, 6; 13, 44; 17, 2-4, 6, 7
 Fischer, N. W. 4, 3
 Fischer indole reaction 19, 77, 80
 Fisher, D. 6, 17
 Fittig, R. 4, 5
 Fixed air 5, 20; 6, 26; 15, 15, 16, 24
 Fixed nitre 3, 8
 Flavitskii, F. M. 7, 25; 17, 24
 Flory, P. 20, 37
 Fluoric acid 11, 56
 Fluoricum 11, 55
 Fluorine 11, 55-59
 Fluorspar 11, 55, 57
 Flurschein, B. 19, 14, 26; 20, 14
 Flusssäure 11, 55
 Food colorants 10, 25-30
 Fortin, N. 5, 22, 32
 Fortuna 12, 8
 Foster, G. C. 13, 63
 de Fourcroy, A. F. 3, 7-10; 4, 3, 8-11; 5, 4-9, 34-36, 46; 8, 5; 10, 5, 35
Fourteen Weeks in Chemistry 15, 55-57
 Fowler, K. H. 7, 8
 Fowler, R. H. 19, 13
 Fownes, G. 4, 6
 Fox-Talbot camera 8, 26
 Francis, G. W. 10, 8
 Francis, W. 12, 30
 Frankland, E. 4, 6, 7; 9, 4, 5; 13, 30, 33-35, 37; 19, 23
 Frankland, E. P. 4, 7
 Frankland, P. 4, 7
 Frankland's Juvenile Lectures 12, 32
 Franklin, B. 5, 16, 17, 31; 15, 27
 Franklinite 17, 49
 Frazer, P. 6, 16
 Freiburg Un. 4, 4-6
 Fresenius, R. 17, 16
 Fresnel, A. J. 5, 6
 Freud, S. 6, 5
 Freund, I. 13, 6
 Freundlich, H. 4, 16
 Freymann, M. 7, 10
 Freymann, R. 7, 10
 Friedel, C. 9, 17; 19, 58
 Fries, J. F. 13, 29
 Fry, H. S. 6, 9, 31; 13, 48; 15, 38; 19, 15, 26
 Fulhame, Dr. 5, 37
 Fulhame, Mrs. 5, 37-41
 Fuller's Earth Union 9, 4
- G**
- Gadolin, J. 17, 45
 Galen 12, 6
 Galileo 11, 15
 Gallium 17, 18, 19
 Ganz, J. 17, 43
 Gardiner, J. H. 12, 34
 Garrick, F. J. 13, 48
 Garvan, F. P. 13, 43, 46
 Garvan, M. B. 13, 46
 Gas absorption bulbs 5, 32
 Gas burner, Faraday's 11, 70
 Gas silvestre 15, 16
 Gateshead 9, 6
 Gauss, K. F. 11, 96
 Gauze burner 11, 70
 Gay-Lussac, J. L. 4, 3; 5, 6-9, 46; 6, 28; 11, 53, 56; 13, 36, 63
 Gay Lussac tower 9, 6
 von Gebauer-Fullneg, E. 6, 22
 Geber 12, 50, 51
 Geiger, H. 4, 17
 Geijer, B. R. 4, 12
 Geissler, H. 11, 69
 Geissler tube 8, 6
 General Electric 4, 7
 Generator, electrical 20, 48
 Genth, F. 4, 7
 Geoffroy, E. F. 10, 4
 Geol. Survey 17, 46, 47, 51, 52, 55
 Gerhardt, C. 6, 28; 7, 20; 8, 11; 13, 31, 33-37
 Gerhardt, F. 13, 63, 64
 German Chem. Soc. 6, 18; 9, 9
 German dye industry 9, 8-10
 German influence on chemistry 4, 3-7
 Getman, F. H. 7, 32
 Gevaert 17, 32
 Gibb, T., Jr. 6, 10
 Gibbs, J. W. 7, 28, 29
 Gibbs, O. W. 7, 17, 18
 Gibbs Medal 9, 18; 20, 60
 Giessen Un. 4, 4-6
 Gilbert, D. 11, 37, 38
 Gill, A. H. 4, 6
 Gillispie, C. C. 6, 4
 Gilman, H. 19, 77
 Gingham, C. 12, 34
 Ginsberg, H. 17, 19
 Gladstone, J. 6, 31, 32, 34; 11, 12, 13
 Glaig, G. 10, 35, 36
 Glaser, C. 10, 4
 Glass, H. M. 7, 6
 Glass electrode 10, 31, 34
 Glass works, Jamestown 9, 19
 Glauber's spirit of nitre 3, 8
 Glenn, W. 6, 15, 17
 Gliadin 17, 2, 4
 Globulins 17, 2
 Glover tower 9, 6
 Gmelin, L. 4, 3
 Goessman, C. 4, 7
 Göhring, O. 4, 17, 18
 Goldschmidt, V. M. 13, 48
 Gombert, M. 6, 7; 7, 1; 19, 50
 Goniometer 8, 23
 Gooch, F. 15, 35
 Gooding, D. 11, 16, 17, 39
 Goppelsröder, F. 17, 36

- Gorham, J. 2, 9
 Göttingen Un. 4, 4-7
 Götting, J. 3, 23
 Goudsmit, S. 6, 8
 Gould & Curry Mine 15, 11
 Grabovskii, L. K. 17, 27
 Graebe, C. 9, 8
 Graham, G. 9, 23
 Graham, T. 4, 34; 6, 34; 17, 2
 Granville, A. B. 11, 18
 Grass and hay, analysis for As and Cu 20, 64, 65
 Gray, A. 20, 24, 25
 Great Exposition, London 3, 17
 Green, J. 2, 9
 Greenford Green 9, 8
 Greifswald Un. 4, 4, 5
 Griess, P. 9, 9
 Grignard, V. 19, 59, 62
 Grignard reaction 17, 26; 19, 77, 78
 Grimaux, É. 15, 59, 60
 Grimm, H. G. 4, 19; 13, 48, 51-53
 Griscom, J. 2, 9; 20, 24
 Grjotheim, K. 17, 19
 Groth, P. 4, 19
 Grotta del Cane 1, 10-12; 2, 3; 3, 3
 von Grotthuss, C. 11, 87, 89
 Grubb, A. C. 6, 30
 Grunwald-Winstein equations 19, 72
 Guano 20, 21, 22
 Guano phosphatic 20, 22
 von Guericke, O. 3, 21; 15, 21
 Guerlac, H. 3, 13
 Guettard, J. E. 5, 12
 Guilliton, J. 5, 16, 32
 Gunning, H. 11, 81
 Gunpowder 5, 13, 16, 32; 9, 6, 24
 Guyton, de Morveau, L. 3, 7-9; 5, 4, 34, 45; 8, 5, 10; 20, 5
- H**
 Haber, F. 4, 16, 17, 19; 20, 62
 Haber, L. F. 2, 24; 6, 8
 Hagley Museum 5, 33
 Hahn, O. 3, 15, 16; 4, 18; 6, 8
 Hale, A. C. 3, 16, 17
 Hales, S. 5, 19, 20, 23, 26, 27; 8, 3, 4
 Haliostat 8, 25
 Hall, C. M. 17, 28; 20, 24
 Hall, C. W. 8, 15
 Hall, G. S. 9, 15, 16, 18
 Hall-Heroult process 17, 19
 Halle Un. 4, 4, 5
 Haller, A. 19, 59
 Hallock, E. J. 15, 57
 Hammett, L. P. 19, 15, 17, 19, 20, 31, 48-50; 20, 10
 Hantzsch, A. 4, 5, 7; 6, 11, 12; 9, 17; 20, 52
 Hare, R. 3, 23; 4, 13, 14; 6, 23, 24; 8, 24; 10, 6-8; 11, 68; 15, 27, 28
 Hare's deflagrator 11, 78
 Hare's voltaic trough 11, 78
 Harkins, W. D. 20, 60-66
 Harrington, E. A. 9, 18
 Harris, E. R. 4, 6
 Hart, E. 6, 19, 21
 Hartlib, S. 13, 19
 Hartmann, J. 1, 5; 10, 3
 Harvard College 4, 3
 Hasenclever, P. 17, 44
 Hashimoto, Y. 17, 34
 Hassall, A. H. 10, 28-30
 Hassel, O. 6, 12; 19, 46
 Hatch Act 17, 10
 Hauboldus, G. G. 11, 69
 Hausmann, W. 17, 3, 4
 Havrez, P. 12, 13
 Haynes, W. 2, 11; 3, 4
 Heaveside, O. 11, 13
 Heidelberg Un. 4, 4
 Heilbron, I. 20, 14, 43
 Heintz, W. 20, 28
 Heitler, W. 13, 49
 Hellwig 11, 69
 von Helmholtz, H. 11, 95, 99; 13, 48
 van Helmont, J. B. 1, 4, 5; 13, 20, 25; 15, 16
 Henderson, R., Col. 8, 22
 Hendricks, S. B. 7, 6, 7, 10, 11
 Henninger, A. 12, 17, 18, 20
 Henry, J. 6, 24; 8, 24; 11, 28; 12, 16, 17
 Henry-Beck chem. slide rule 8, 25
 Heroult, P. 17, 18
 Herschel, J. F. W. 11, 19, 20, 22, 37, 85; 12, 19
 Hertz, C. H. 13, 41, 44
 Hessian crucible 11, 79
 Heterolysis 19, 15, 36
 Heumann, K. 10, 9-11
 von Hevesy, G. 4, 17
 Hew Singers 9, 4
 Hexachloroethane 11, 6
 Hexahydrone 7, 5
 Heyl, F. W. 17, 6
 Higgins, B. 4, 31
 Higgins, W. 6, 27
 Hildebrand, J. H. 7, 8, 10, 11, 31; 20, 38
 Hill, R. W. 19, 62
 Hinrichs, G. D. 12, 15
 Hinshelwood, C. 19, 1, 15
 Hippocrates 12, 6
 Hirsch, G. 17, 31
 HIST, founding 13, 44
 Histories, Am. Chem. Depts. 3, 26
 Historiography of science 15, 19
 Hitchcock, E. 6, 24
 Hitchcock, F. 17, 13
 Hobbes, T. 15, 20-23
 Hoechst 9, 8
 Hoefler, F. 7, 22
 Hoffman, G. 12, 4
 Hofmann, A. W. 2, 16; 4, 5, 7; 7, 20-22, 38, 39; 9, 7, 9, 10, 16; 10, 10; 13, 30, 31, 34, 35, 64; 19, 23
 Hofmann elimination 17, 27
 Hofmeister, F. 17, 2, 3
 Hogendahl, K. 19, 28
 Home, E. 11, 17, 18
 Homolysis 19, 15, 36
 Hönigschmid, O. 4, 18, 19
 Hooke, R. 4, 12
 Homberg, W. 3, 21; 5, 19
 Homberg's pyrophorus 2, 22, 23; 3, 21
 Hooker, W. 1, 10, 11
 Hooks and eyes 8, 7
 Hoover, H. C. 12, 3-9
 Hoover, L. 12, 3-6
 Hope, T. C. 15, 4
 Hope's apparatus 8, 23
 Hopewell furnace 17, 46
 Hopkins, F. G. 4, 24; 17, 5, 7
 Horsford, E. N. 4, 5; 20, 29-31
 Howe, H. E. 6, 22; 13, 44
 Hübner, H. 4, 5; 9, 38
 Hückel, E. 13, 49
 Hudson, J. 11, 17
 Huggins, M. L. 7, 3-5, 7-11; 13, 48
 Hughes, C. E. 6, 4
 Hughes, E. D. 6, 4; 15, 37-42; 19, 3, 4, 8, 15-17, 23, 25, 43-45, 77, 79, 80, 81
 Hughes-Ingold solvent theory 19, 72-75
 Hugo, V. 8, 8-12
 Hume, D. 11, 32
 Hund, F. 13, 49
 Hungarian Acad. Sci. 20, 49
 Hungarian National Museum 3, 12; 20, 46-49
 Hunt, A. E. 6, 17
 Hunt, A. H. 6, 18
 Hunt, R. W. 17, 53
 Hunt, T. S. 12, 35, 37
 Hunter, F. 7, 6
 Hurd, C. B. 9, 19
 Hurd, C. D. 6, 22, 23
 Hutcheson, F. 11, 32
 Hüttig, G. F. 13, 48
 Huxley, T. 11, 7
 Hydrogen bonding 7, 3-13
 Hydrogenium 6, 34
 Hydron 19, 39
 Hydrone 7, 5, 9
 Hydrophobic effect 19, 72, 73
 Hydroxyl Bond 7, 9
 Hydrogen electrode 10, 31, 32
 Hydrogen-calomel electrode 10, 31, 32
 Hygrometer, Daniell's 8, 23

- Hygrometer, Sassure 8, 23
Hyzone 6, 30
- I**
Iatrochemistry 10, 3
Ihde, A. J. 3, 12
Imperial College 20, 43, 44
Imp. Chem. Ind. 19, 4, 16
Indium, discovery 17, 16
Induction 11, 52
Inductive effect 19, 22, 28-30, 33-35, 39
Inductomeric effect 19, 29, 30, 33, 35
Industry, chemical 3, 4-7
Ingenhousz, J. 5, 40
Ingold, C. K. 6, 9; 13, 6, 48; 15, 37-42; 19, 1 ff; 20, 14
Ingold, E. H. 19, 17, 26
Instrumentation 15, 1-7
Insulin 6, 4
Integrated circuit 9, 11-13
Internalists 6, 3
International correspondence course 1, 7
Iodine-azide reaction 17, 37
Ionotropy 19, 37
Iron, assay 17, 41-45
Iron industry 17, 41
Iron manufacture 9, 19-21
Isis 4, 25, 26
Isomorphism 13, 64
Israel 11, 69
- J**
Jackson, C. L. 6, 18; 9, 17
Jackson, C. T. 17, 46
Jacobsen, P. 19, 77, 78, 80, 82, 84
Jaffe, B. 3, 13, 14
Jaffé, H. H. 6, 8
J. Am. Chem. Soc. 6, 19
J. Am. Chem. Soc., first editor 4, 8
James, C. 1, 8, 9
J. Anal. Chem. 6, 19
Janin, L. 12, 4
Jantsch, G. 20, 55
Jardin des Plantes 8, 26
Jardin du Roi 10, 3-5
Jedlik, A. 20, 48
Jefferson, Thomas 3, 11; 8, 19; 9, 21-23
Jeffrey, G. A. 19, 6
Jena Un. 4, 4, 5
Jenkin, H. C. F. 11, 96
Jenkins, R. 3, 12
Joachimsthal 12, 6, 7
Job, A. 19, 59, 60
Joergensen, C. K. 6, 13
Johns Hopkins Un. 4, 6; 9, 15
Johnson, J. 5, 38, 41
Johnson, O. 6, 10
Johnson, S. 12, 50, 51; 17, 1, 2
Johnson, T. B. 17, 6
Johnson-Matthey Co. 4, 14
Johnston, J. 6, 23-25
Joliot, F. 19, 62
Joliot-Curie, F. 20, 33
Joliot-Curie, I. 20, 33-39
Jones, D. V. 17, 6
Jones, H. B. 11, 3, 5, 10, 13, 21, 30, 46, 66
Jones, H. C. 7, 26, 27; 9, 17
Jones, M. 20, 60
Jones, T. P. 2, 9
Joos, G. 4, 19
Joule, J. P. 5, 6; 11, 96
Joy, C. A. 4, 6
Jungreis, E. 17, 34, 37
Justel, H. 4, 12
- K**
Kahlenberg, L. 6, 23
Kant, I. 11, 16; 13, 29
Kaplan, S. 4, 16, 17
Kapulitzas, H. 17, 31
Karlsruhe Congress 13, 335, 63
Karlsruhe Tech. Un. 4, 4
Karlsruhe Un. 4, 17
Karrer, P. 17, 32; 20, 50, 53
Karrer, W. 20, 55
Kastler, A. 19, 59
Kationoid 19, 35, 37, 39, 40
Kauffman, G. 4, 23, 24
Kauffman, H. 13, 48, 50; 20, 13
Kazan Univ. 17, 21, 22
Keating, W. H. 2, 9
Keeler, E. A. 10, 31-33
Kekulé, F. A. 3, 17; 7, 19-22, 27, 28; 12, 10-18, 20, 21; 13, 30, 31, 34-37, 64; 17, 24, 27
Keller, I. 8, 15
Kelvin, Lord 11, 96
Kemmer, N. 11, 82
Kentucky Academy 8, 22
Kentucky Female Eclectic Inst. 8, 23
Kepler, J. 13, 61
Kermack, W. O. 20, 15
Ketelaar, J. A. A. 13, 54-56
Kharasch, M. S. 15, 37; 19, 48, 50, 51
Kieffer, W. 6, 11
Kiel Un. 4, 4
King, C. 10, 22, 23
King, R. 15, 5
King, V. L. 20, 51, 52
Kinnersley thermometer 8, 26
Kipp generator 8, 35
Kirchhoff, G. R. 8, 6; 17, 16
Kirkwood, J. G. 19, 53
Kirner, W. R. 19, 51
Kirmann, A. 19, 58-63
Kirwan, R. 5, 4, 5, 8
Kaproth, M. H. 11, 82
Klaus, K. 7, 25, 26; 17, 21, 24
Knorr, C. A. 13, 50, 51
Koerner, W. 12, 10-14
Kohler, E. P. 19, 50-52
Kohler, R. E., Jr. 7, 11
Kohlrausch, F. 11, 62
Kolbe, H. 4, 7; 7, 19-24; 12, 10, 13; 13, 30, 31, 33-36; 15, 7, 49; 17, 22-25, 27
Kolthoff, I. M. 15, 2
Kon, G. A. R. 15, 40, 41
Königsberg Un. 4, 4, 5
Königsberger, L. 4, 16
Kopp, H. 4, 5; 7, 19-24; 13, 35, 36; 20, 2-4, 6-8
Körner, W. 2, 4, 5
Kossel, A. 17, 3-5, 7
Kossel, W. 13, 48
Kossuth, L. 20, 46
Koyré, A. 11, 15
Kraus, C. A. 9, 17, 18
Kraus, E. H. 6, 7
Kreshkov, A. 20, 38
Kuh, H. 20, 54
Kuhlmann, C. F. 13, 32
Kühn, O. B. 4, 3
Kunckel, J. 3, 21
Kwart, H. 19, 85, 90
- L**
deLacaille, Abbé 5, 12
Lactic acids 15, 49
Ladenburg, A. 6, 30; 12, 13, 15, 18, 19; 13, 35
L'Affaire Curie 20, 33-39
Lamb, A. B. 6, 11
Landauer, R. S. 6, 30
Landé, A. 13, 48
Landolt, H. H. 20, 53
Langmuir, I. 4, 7; 6, 29; 7, 4; 8, 7; 13, 48; 19, 25, 26
Langmuir Award 7, 1
Lankester, E. R. 11, 30
Laplace, P.-S. 5, 8, 22, 28, 29, 32, 35; 15, 24
Lapworth, A. 13, 48; 19, 13, 15, 26, 33, 35, 37, 40, 50, 58; 20, 14, 15
deLavergne, L. 5, 16
LaRochelle, J. H. 6, 10
Latimer, W. 6, 11; 7, 3-11
Lauraguais, L. L. F. 4, 12
Laurent, A. 6, 28; 8, 10, 11; 13, 31, 33-35, 63, 64
Lavoisier, A. A. 3, 7-9, 21, 22; 4, 8-13; 5, 3-50; 8, 4, 5; 10, 34-36; 11, 55, 68, 69, 77; 13, 27-29, 35, 37, 61; 15, 16, 19, 23-25; 20, 1-8, 48
Lavoisier, A. A., biographies 5, 48-49
Lavoisier, Mme. 5, 4, 6, 9, 12, 31-33, 36, 41

- Lavoisier's mills 5, 9
 Lead, atomic weight 4, 18
 Lead chamber process 9, 6
 LeBas, G. 6, 9
 LeBel, J. A. 12, 10, 11, 14-21; 19, 59, 62
 Leblanc, N. 5, 32
 Leblanc process 9, 5
 LeChatelier, H. L. 3, 17; 17, 15
 LeChatelier, L. 17, 15
 Leeds, A. R. 6, 19
 Leeds & Northrup 10, 31, 34
 LeFèvre, N. 10, 4
 Lehfeldt, R. A. 11, 99
 Lehman, G. 5, 44
 Leicester, H. M. 2, 13; 10, 15-21
 Leipzig Un. 4, 4-6, 16
 Lambert, M. 4, 18
 Lemery, L. 3, 21; 10, 4
 Lemery, N. 10, 3, 4
 Lenard, P. 4, 16, 17; 11, 96
 Lennard-Jones, J. E. 19, 20
 Lenoir, E. 5, 32
 Lepape, A. 19, 62
 Les Forges du Saint-Maurice 2, 15
 Lespieau, R. 19, 58-60, 62
 Letters to editor 2, 3; 8, 30, 31; 9, 34; 10, 45; 12, 45; 13, 72-73
 Leucippus 8, 5; 13, 60
 Levey, M. 2, 14
 Levinstein, I. 9, 9, 10
 Lewin, S. Z. 6, 9
 Lewis, G. N. 6, 23, 31; 7, 3, 4, 6, 8, 11; 8, 7; 13, 48-51; 19, 13, 25-27, 29, 33, 34, 40, 48-50, 52, 60; 20, 11, 14, 62
 Lewis theory 7, 3
 Lewis-Langmuir theory 15, 37; 20, 10, 15
 Leyden jars 8, 26
 Liason hydrogène 7, 10
 Liason monoélectronique 7, 4, 10
 Libavius, A. 10, 3; 11, 68, 69
 Lieber, H. G. 9, 18
 Lieber, L. R. 9, 18, 19
 Liebermann, C. 9, 8
 von Liebig, J. 4, 3-6, 34; 7, 19, 22, 25; 10, 8-10; 11, 49, 60, 64; 13, 30-36, 62; 17, 1, 7
 Lincoln Agr. Coll. 7, 14
 Lind, S. C. 20, 36
 Lindgren, W. 12, 4
 Linnett, J. W. 6, 8
 Linton, L. A. 8, 15-17
 Lipscomb, W. 6, 12
 Liquefaction of gases 11, 22-24, 60, 72
 Liquopodium 11, 53
 Lister Institute 20, 45
 Lloyd, F. 17, 10
 Lloyd, R. 17 9-12
 Lobachevsky, N. 7, 24
 Locke, J. 11, 31
 Lockyer, N. 12, 30, 31
 Lodge, Sir O. 11, 73, 74; 13, 48
 Loeb, M. 9, 16, 17
 Loewi, O. 17, 4
 Lombard Univ. 8, 16
 Lomonosov, M. V. 15, 62
 London, F. 13, 49
 London Co. 9, 19, 20
 London Un. 11, 78
 Long, J. H. 3, 17
 Long Pond Iron Works 17, 54
 Longuet-Higgins, C. 19, 62
 Lonsdale, K. 19, 6
 Lorentz, H. A. 13, 51; 19, 22
 Loring, F. H. 12, 33
 Loschmidt, J. J. 4, 29, 30; 11, 95, 96; 12, 11
 Lossen, W. 15, 45-59, 52, 53
 Losy-Schmidt, E. 20, 47
 Lowry, T. M. 20, 10-16
 Louis XV 5, 15
 Louis XVI 5, 15, 16
 Löwenthal, J. 6, 30
 Lowry, T. M. 7, 5, 6, 11; 13, 48; 19, 13, 14, 26, 27, 33, 34, 37, 40, 60, 61; 20, 48
 Lucas, H. 15, 37; 19, 25, 27, 45, 48, 50, 51
 Luckow, C. 7, 17, 18
 Lucretius 5, 19; 8, 5
 Lunar nitre 3, 8
 Lunar Society 5, 16
 Lunge, G. 3, 19
 Luther, R. 4, 16
 Lutz, R. E. 19, 51
 Lyapunov, M. V. 17, 21, 22
 Lyons, E. 6, 22
 Lysenko, T. D. 20, 37
- M**
 M'Candless, E. V. 7, 17
 McClellan, A. L. 7, 4, 6
 McCutcheon, T. P. 20, 54
 McKenzie, A. 6, 6
 McKenzie, J. D. 6, 9
 McKie, D. 2, 13
 MacKintosh, J. B. 6, 18
 MacLean, I. S. 20, 44
 McMurtie, W. 3, 17, 20; 6, 19
 Maberry, C. F. 6, 18; 17, 10, 12
 Macleod, J. J. R. 6, 4
 Macquer, P. J. 3, 8; 5, 34, 45; 10, 4; 11, 73; 20, 6
 Macquer, P. M. 10, 36;
 Madgin, W. M. 7, 6
 Magdeburg spheres 8, 25
 Magenta 9, 8, 10
 Magnesia alba 3, 8
 Magnesia nigra 3, 8
 Magnetochemistry 11, 5
 Magnus, A. 13, 48
 Magnus, G. 6, 30
 Magrath, E. 11, 29, 37, 67
 Maisch, J. 4, 7
 Makower, W. 4, 17
 Mallet, J. W. 3, 24, 25; 6, 18, 19
 Mallet, R. 3, 24
 Maltby, E. 11, 19, 80
 Manhattan project 6, 8
 Manley J. J. 8, 12
 Manning, J. 10, 26
 Manross, N. S. 4, 5
Manual of Chemistry, Johnston's 6, 23-25
 Marat, J-P. 5, 14, 17
 Marboe, E. C. 6, 9
 Marburg Un. 4, 4-7
 Marcet, J. 2, 7-9; 5, 41
 Marcet's steam apparatus 8, 23
 Margaric acid 8, 12
 Marggraff, A. 11, 55
 Margueritte, F. 20, 47
 Marignac, J.-C. 13, 62
 Mariposa Mining Co. 15, 11
 Markovnikov, V. V. 7, 25, 26; 17, 21-24, 27, 28
 Marsh, J. 11, 38
 Marsh generator 20, 63
 Marsh test 6, 27, 28
 Marsh's apparatus 11, 78
 Martial chalk 3, 8
 Martin and Synge chromatography 17, 7
 Martius, K. A. 9, 9, 10
 Mass. Coll. Agr. 4, 7
 Masson, G. H. 6, 18
 Matissen, S. 20, 55
 Matteucci, C. 11, 50
 Matthew effect 6, 4
 Mauve 9, 7, 8; 10, 30
 Maxwell, J. C. 11, 4, 8, 13, 94, 96, 97
 Maxwell's equations 11, 13; 19, 21
 Mayer, R. 13, 27-29
 Mayer, T. 11, 37
 Mayo, F. 19, 48, 51
 Mayow, J. 4, 12, 13
 Mechanics Inst. (NY) 20, 30, 31
Mechanics Magazine 11, 12
 Mechanisms, symbols 19, 36
 Medical College of Louisiana 3, 25
 Medicine, routes in chemistry 1, 4, 5
 Megaw, H. D. 7, 9
 Mégnié, P. 5, 21, 32
 Meitner, L. 3, 16; 4, 18
 Meldola Medal 19, 2
 Meldrum W. G. 19, 19, 20
 Mellor, J. W. 6, 31; 7, 13-16
 Melville, H. W. 20, 43
 Mendel, G. 6, 5, 6; 17, 4-7

- Mendel, L. 20, 61
 Mendeleev, D. 3, 17; 5, 7; 7, 27, 28, 30, 31; 8, 6; 13, 62-65; 17, 16, 17
 Mendeleev table 13, 60, 63-65
 Mercurius vitae 3, 8
 Mercury poisoning 11, 47-50
 Merigold, B. S. 9, 16-18
 Merton, R. K. 6, 4
 Merz, V. 17, 10
 Mesabi ores 17, 48
 Mesitylene, Kekulé structure 12, 12
 Mesomerism 19, 14, 15, 22, 25-31, 33, 35, 39; 20, 14
 Metachemistry 12, 33
 Metallurgical chemistry 17, 41, 50
 Metallurgy 17, 41, 50, 52
 Metzger, H. 19, 23
 Methyl violet 9, 8
 Meusnier, J.-B. 4, 13; 5, 28, 29
 Meyer, L. 13, 52, 63-65; 17, 16
 Meyer, V. 4, 5; 15, 34; 17, 16
 Micelles 19, 72-76
 Michael, A. 6, 6; 9, 15, 16; 15, 50; 19, 49, 50
 Microcrith 2, 16-18
 Microprocessor 9, 12, 13
 Midgley, T. J. 6, 22
 Miles, W. 3, 13
 Milk, preserving 8, 18, 20
 Mining engineering 12, 3-5, 7-9
 Miolati, A. 20, 51
 Miranda, L. I. 17, 33
 Mirsky, A. E. 7, 8
 MIT 4, 6
 Mitchell, E. 11, 79
 Mitchell, J. K. 6, 24; 11, 67, 68
 Mitchell, T. D. 5, 42-47; 10, 7
 Mitchell, S.M. 3, 11; 5, 45
 Mitsche, KR. 17, 19
 Mitscherlich, E. 4, 3; 13, 64
 Mixed multiple bond 20, 10-16
 Mixt 20, 7
 Mixer, W. G. 17, 1
 Mizushima, S. 7, 11
 Moissan, F. F. H. 11, 3, 59
 Mollet, P. 7, 10
 Monge, G. 5, 6, 35
 Monkhouse, C. 11, 13
 Montana Un. 20, 60-62
 Moore, F. J. 6, 3
 Moore, H. 11, 66
 Moore, S. 17, 7
 Moosnick, M. 8, 23
 Morfit & Morfit 11, 73
 Morgan, T. H. 6, 5
 Morhof, G. 13, 19
 Morino, Y. 7, 11
 Morley, F. 20, 42
 Morphia 11, 93
 Morrill, J. S. 20, 27
 Morrill Act 20, 27
 Morrill Hall (Chem.), Wash. State. Un. 20, 27
 Morris, P. 9, 5
 Morse, H. N. 4, 6; 7, 27
 Moseley, H. G. 4, 17; 13, 66
 Moyes, H. 8, 20
 Mozart, W. A. 11, 3
 Muir, M. P. 6, 26, 29, 34
 Mulder, G. 17, 7
 Mulliken, R. S. 9, 16; 13, 49; 19, 62; 20, 60
 Mulliken, S. P. 4, 6; 9, 16
 Multhauf, R. 4, 26
 München Tech. Un. 4, 4
 München Un. 4, 4, 5
 Muncke, G. W. 13, 29
 Munroe, C. E. 3, 20; 6, 18, 20
 Murphy, W. J. 20, 34-36
 Murray, J. 5, 46; 11, 19, 77
 Museum Early Phil. Apparatus 8, 22-26
 Museum of Economic Geology 4, 34
 Muséum d'Histoire Naturelle 5, 9
 Muspratts 9, 4
- N**
 Nantes School of Sci. 20, 18
 Naquet, A. 12, 15
 Nascent state 6, 26-34
 Nat. Inst. Health 13, 43
 Nat. Museum of Arts and Commerce 4, 24
 Nature 12, 30, 31
 Nebraska Section, Am. Chem. Soc. 17, 11
 Needham, J. 4, 24
 Nef, J. U. 9, 16; 19, 50
 Nelson, C. 15, 38
 Neoplatonists 13, 61
 Neptunium 11, 82
 Nernst, W. H. 3, 17; 4, 7, 18; 6, 11; 13, 44
 New Almaden Quicksilver Mine 15, 10, 11
 Newlands, J. A. R. 13, 62, 63, 66
 Newman, J. 11, 82, 84; 12, 25
 Newman-Brooke oxyhydrogen blowpipe 11, 81-83, 85
 Newth, G. S. 10, 11
 Newton, I. 5, 20, 21, 26; 11, 9, 48; 13, 19, 22-26
 Newton's engine 8, 23
 Nichols, W. H. 13, 41
 Nichols Medal 9, 17, 18
 Nicholson, E. C. 9, 10
 Nicholson, H. H. 17, 9-12
 Nicholson, W. 5, 46; 11, 86
 Nitre d'argent 3, 8
 Nitrogen, electron structure 20, 12
 Nitrogene 3, 10
 Nixon, A. C. 20, 3
- Nobel Prize 6, 8, 12; 19, 45, 46; 20, 51, 56
 Noble gases 5, 5
 Noddack, I. 3, 15, 16
 deNollet, Abbé 5, 12
 Nomenclature, chemical 3, 7-11
 Nomenclature, Lavoisier 10, 35, 36
 Nooth apparatus 5, 39, 40
 Norris, J. F. 9, 17; 19, 50
 Norrish, R. G. W. 20, 14
 North Staffordshire Tech. Coll. 7, 15
 Northmore, T. 11, 24
 Norton, L. M. 4, 6; 6, 18
 Norton, R. 20, 35
 Norton, T. H. 6, 16
 Norwood Tech. Inst. 15, 2
 Notice to Subscribers 12, 51
 Nouveau Journal de chimie 1, 22
 Noyes, A. A. 4, 6; 9, 17; 19, 51; 20, 62
 Noyes, W. A. 3, 17; 6, 19; 13, 44-46, 48; 15, 38; 19, 13; 20, 14
 Noyes, W. A., Jr. 13, 44, 45
 Nuclear fission 3, 15, 16
 Nyholm, R. 19, 7, 66, 70
- O**
 Obituaries 12, 48
 Oekonometer 15, 6
 Oersted, H. C. 11, 20, 36
 Oertling, L. 8, 12, 13
 Oertling balance 20, 43
 Oesper, R. E. 1, 13, 14; 2, 11
 Oesper Lecture 4, 3
 Offa Helmontii 3, 8
 Ogg, R. 19, 48
 Oldenburg, H. 4, 12
 Olympic Games 20, 31
 Optical fibers 9, 12
 Orbital symmetry control 19, 85
 Orna, M. V. 2, 23
 Ordway, J. 6, 17
 Organic chemistry, history in US 6, 3
 Orléanis, Prov. Assembly 5, 16
 Országos Műszaki Múzeum 20, 47
 Ortigosa, J. V. 4, 5
 Orton, K. 19, 17, 23
 Osann, G. W. 6, 30
 Osborne, T. B. 17, 1-7
 O'Shaughnessy, W. B. 10, 28
 Osiris 4, 25
 Ostwald, W. 3, 17; 4, 5, 16; 6, 26, 33; 7, 5, 27, 28, 30, 31; 10, 12, 13; 11, 98; 13, 44; 15, 7; 19, 50
 Otter, W. 11, 79, 80
 Outstanding Paper Award 1, 18; 2, 24, 25; 4, 32; 6, 44; 12, 47; 13, 74
 Overhead projectors 10, 12
 Overman, F. 17, 54
 Owens, R. 11, 29
 Owens College 4, 7

- Oxford Un. 4, 3, 6
 Oxnard Brothers 17, 11
 Oxygen 5, 15, 16, 18, 22
 Oxygen electrode 10, 32
 Oxymuriatic acid 5, 7
- P**
- Paenecarbanion 19, 38
 Paenecarbonium ion 19, 38
 Paneth, I. 4, 18
 Pagel, W. 3, 12
 Palmgreen, C. 8, 23
 Paracelsus 1, 4; 10, 3; 12, 7, 8; 19, 22
 Parachor 20, 16
 Paris, J. A. 11, 22, 23
 Paris School org. reaction mechanisms 19, 58-63
 Parkhurst, G. L. 6, 21
 Parrish, J. 5, 44
 Parsons, A. 13, 48
 Parsons, C. L. 1, 8, 9; 4, 20; 6, 18; 13, 44
 Partington, J. R. 2, 13, 14; 19, 23
 Pascal, B. 8, 5; 11, 48
 Pasteur, L. 12, 19; 13, 30, 34; 17, 2
 Patterson, H. J. 6, 17
 Pauli principle 7, 7
 Pauling, L. 4, 20; 6, 8, 10-12; 7, 1, 6-11; 13, 49, 63; 19, 17, 25, 29, 30, 48, 52, 62; 20, 34, 36
 Paulze, J. 5, 12
 Pearl ashes 3, 8
 Peckham, S. F. 8, 15, 16
 Peel, R. 11, 17
 Peligot, E. M. 13, 36; 20, 22
 Pelouze, T. J. 13, 36; 20, 20
 Pennington, J. 8, 18-20
 Penn. Un. 4, 6, 7
 Pennington, J. 5, 44
 Penny, F. 4, 6
 Pentahydrone 7, 5
 Peptones 17, 4
 Pepys galvanometer 11, 78
 Pepys voltaic apparatus 11, 78
 Pepys voltaic conductor 11, 78
 Perkin, F. 4, 6
 Perkin, W. H. 9, 7-10; 10, 30
 Perkin, W. H., Jr. 3, 17; 4, 6; 7, 14; 20, 28
 Perkin Medal 20, 24
 Perley, G. A. 10, 33
 Perrin, J. 7, 5, 10; 11, 99; 19, 59, 60, 62
 Peter, A. M. 6, 17
 Peter, R. 8, 23, 26
 Petit, A.-T. 13, 64
 Pettenkofer, M. 13, 62, 63, 65
 pH measurement 10, 31-34
 Philadelphia Exposition 3, 25
 Philalethes, E. 13, 19-26
 Phil. Coll. Pharm. 4, 7
 Phillips, R. 11, 20, 23, 36, 67, 77
 Phillips, W. 11, 77
 Philos. Mag 12, 30
 Philosophers' stone 13, 25
 Phipson, T. L. 6, 30, 31
 Phlogiston 3, 8, 9, 22; 4, 8, 9; 5, 3-8, 17, 18, 21, 22, 24, 27, 37, 39-44; 8, 19, 20; 10, 36; 15, 20, 23, 24; 20, 1-3, 6-8
 Physical org. chem., US 19, 48-53
 Physical org. chem., terminology 19, 33-40
 Pimentel, G. C. 7, 4, 6
 Pinkus, A. 6, 31
 Pitch 9, 21
 Pitzer, K. S. 19, 48
 Plant proteins 17, 1, 2
 Plato 6, 5
 Platonic solids 13, 60, 61
 Plato's square 13, 60
 Plato's triangle 13, 60
 Playfair, L. 1, 11; 4, 4, 6, 34
 Plücker tube 1, 9
 Plumbago 11, 57, 58, 84
 Plutonium 11, 81, 82, 84
 Pneumatic chemistry 5, 19, 20, 26
 Pneumatic chemists 8, 3
 Pneumatic trough 8, 3
 Poggendorff's galvanometer 11, 78
 Polanyi, M. 19, 15, 16, 62
 Polarimeter 20, 53
 Polarizability 19, 34, 35
 Polarization 19, 34, 35
 Polar-transition-state theory 19, 81-84
 Politics, Lavoisier's 5, 10-14
 Polonium 8, 6
 Popov, A. N. 17, 24, 27
 Popular Chemistry 15, 57, 58
 Porenski, V. 7, 10
 Potash, Hopkins prep. 8, 21
 Powder Commission 5, 16
 Precipitate washer 15, 5
 Pregl, F. 17, 36
 Prescott, A. B. 3, 19, 20; 6, 16, 19, 20
 Prévost, C. 19, 58-63
 Priestley, J. 4, 11, 13; 5, 15-18, 24, 28, 31, 37-41; 6, 26, 27; 8, 3-5, 21; 11, 77; 13, 23; 15, 23, 24
 Priestley Medal 9, 18
 Principe oxigene 3, 9
 Proctor, H. B. 3, 19
 Program Chair, message from 3, 28
 Protactinium 3, 16; 4, 18
 Prototropy 19, 37, 60
 Proust, L. 3, 23
 Prout, W. 5, 6; 13, 62-65
 Prout's hypothesis 12, 33; 13, 8; 19, 20
 Prussian blue 3, 23
 Pseudophase kinetic model 19, 73, 74
 Pullar & Sons 9, 7
 Puddling process 9, 6; 17, 51
 Pure Food Drug Act 10, 30
 Pure food laws 10, 25
 Pyridine, structure 2, 4-6
 Pythagoreans 13, 60-66
- Q**
- Quanticule 6, 8-13
 Quantification 1, 4
 Quantivalence 2, 16
 Quicksilver 11, 47
 Quinhydrone electrode 10, 31, 33
 Quinia 11, 93
- R**
- Rabinowitch, E. 20, 34, 36, 37
 Radium 8, 6
 Rajman, E. 17, 31
 Rammelsberg, K. F. 12, 19
 Ramsay, W. 5, 5; 7, 29, 20; 13, 48; 19, 3
 Ramsden, J. 8, 12; 15, 2, 3
 Ramsden balance 15, 4
 von Ranke, L. 7, 19, 22
 Raoult, F. 19, 59
 Rappaport, F. 17, 31
 Rayleigh, Lord 5, 5; 7, 29, 30; 11, 97
 Read, J. 2, 12
 Rearrangement, benzidine 19, 45, 77-87
 Rearrangement, benzoic acid 15, 38-40, 41, 42
 Rearrangement, Hofmann 15, 39, 40
 Rearrangements, intramolecular 15, 38-42
 de Reaumer, R. A. F. 17, 45
 Records of chemistry 9, 3-6
 Reed, C. J. 6, 16
 Reformatskii, S. N. 7, 25; 17, 26
 Régie des Poudres 5, 9
 Regulus of antimony 2, 23
 Reich, F. 17, 16
 Reid, D. B. 12, 25
 Reid, E. E. 7, 30; 19, 49
 Remelé, A. 13, 65
 Remick, A. E. 19, 14, 15, 31
 Remsen, I. 3, 17; 4, 3, 6; 6, 19; 9, 15; 13, 41
 Renard Frères 9, 8
 Rensselaer Poly. Inst. 12, 26
 Residual affinities 20, 15
 Resolution, Pasteur 20, 52
 Resonance 7, 8
 Resonance theory 19, 14, 27, 30, 34
 Rhenium 3, 15
 Rhombahedral benzene 12, 15
 Richard, E. S. 8, 15, 16

- Richards, E. S. 3, 20; 17, 12
 Richards, T. W. 4, 18; 9, 16; 11, 9; 19, 19, 51
 Richarz, F. 13, 48
 Richter, T. 17, 16
 Ridgely, F. 8, 22
 Riebau Book Store 11, 5
 Riecke, E. 15, 34
 Ring stand 11, 71
 Rinne, F. 7, 5
 Ritchie, W. 11, 88
 Ritter, J. W. 11, 86
 Ritthausen, H. 17, 1, 2, 4, 5
 Rivière & Rivière 11, 73
 Rivot, L. E. 17, 46; 20, 20
 Roberts, C. F. 15, 31-35; 17, 13
 Roberts, Dale & Co. 9, 9
 Robierre 11, 73
 Robinson, R. 13, 48; 15, 37, 39; 19, 1, 14, 26-28, 33-35, 37, 40, 43-46, 50, 58, 79, 80; 20, 14, 15
 Robinson, T. 6, 17, 18; 8, 12; 15, 4
 Robinson balance 15, 4, 5
 Rochow, E. 6, 10
 Rockefeller Found. 4, 21
 Rocky Hill Copper Mine 17, 44
 Rodebush, W. H. 7, 3-11
 Rolfe, J. 9, 2
 Rolfinck, G. 10, 3
 Rona, E. 4, 18, 19
 Röntgen rays 4, 16
 Röntgen, W. 4, 19
 Rosanoff, L. (see Lieber, L.)
 Rosanoff, M. A. 9, 17
 Roscoe, H. 4, 3, 6, 7; 9, 9; 11, 12, 70, 95; 17, 16
 Rose, G. 4, 3
 Rose, H. 4, 3, 5
 Rose, W. C. 17, 5
 Rossel, R. 17, 34
 Rossi, A. 17, 48
 Rostock Un. 4, 4, 5
 Rouelle, G.-F. 5, 12, 26; 10, 4, 5, 7
 Rouelle, H. M. 10, 4
 Roy. Astron. Soc. 11, 38
 Roy. Coll. Chem. 4, 6, 7; 11, 70
 Roy. Inst. 11, 3-5, 7, 8, 10, 14, 15, 20, 24, 25, 28, 30, 33, 34, 36-40, 44, 53, 65, 66, 73, 76-79, 81, 86, 96, 98
 Roy. Inst., Manchester 4, 34
 Roy. Mil Acad. 11, 38
 Roy. Scottish Mus. 4, 26
 Roy. Soc. 5, 16, 17; 11, 17-26, 36-38, 85, 87
 de Rozier, P. 3, 23
 Rumford, Count 5, 6, 33, 37; 11, 65
 Rumford thermometer 8, 26
 Rush, B. 8, 18, 20, 21; 9, 23
 Russell, A. 17, 19
 Russ. Phys. Chem. Soc. 17, 27
 Ruthenium, discovery 17, 24
 Rutherford, E. 4, 17; 6, 10; 7, 14; 8, 6; 11, 96
 Ryan, H. C. B. 12, 33, 34
- S**
 Sabatier, P. 19, 59
 Sabine, E. 11, 38
 Sadler, J. 11, 24
 Sadtler, S. P. 4, 6; 10, 10, 11
 Safety lamp, Davy's 11, 71
 Salleron, J. 8, 14
 Salt particle 13, 24
 Salt works, Virginia 9, 21
 Samter, Herr v. 1, 6-8
 Sand bath 11, 70
 Sandeman, R. 11, 41, 46, 47
 Sandemanian(s) 11, 29, 32-34, 40-44
 Sanger, F. 17, 7
 Sannié, C. 7, 10
 Sarton, G. 6, 3, 4
 Saugus Iron Works 17, 43, 44
 Sausage symbols 12, 11
 deSaussure, H. B. 5, 8
 Savart 11, 52
 Saytzeff Rule 17, 27
 Schäfer, H. 13, 57
 Scheele, C. W. 3, 22, 23; 11, 55
 Scholze, E. 20, 52
 Schönbein, C. 6, 30, 31; 11, 46, 50
 Schönberg, C. F. 17, 36
 Schorlemmer, C. 4, 7; 19, 23
 Schuckburg, F. 11, 19, 25
 Schuette, H. A. 3, 12
 Schwyzer, E. 20, 55
 Sci. Mus. London 4, 26
 Scoffern, J. 11, 65
 Scott, T. A. 15, 10-12
 Scudamore, C. 11, 19
 Seaborg, G. 11, 82
 Seaman, W. N. 6, 18
 Sears, M. J. 9, 18
 Seaton, C. 9, 6
 Sedgwick, A. 11, 81
 Séguin, A. 15, 24
 Sel nitreux 3, 8
 Sel vitriolique 3, 8
 Semiconductors 9, 11-14; 11, 58
 Semple, F. 15, 10
 Sennert, D. 10, 3
 Serrin, V. 8, 12-15
 Seubert, K. 13, 65
 Seybert, A. 5, 44
 Sharples, S. P. 6, 18
 Shaw, F. R. 19, 28
 Sheffield Sci. School 15, 9, 12
 Shelburne, Earl of 5, 16
 Sherman, A. 7, 9
 Sherman, J. 7, 7; 19, 30
 Shockley, W. 9, 11
 Sidgwick, N. V. 7, 5, 6, 9-11; 13, 48; 19, 13, 20, 29; 20, 12
 Siecke, W. 11, 47
 Siegfried, R. 8, 4
 von Siemens, W. 11, 96; 20, 48
 Sigmatropic shifts 19, 85
 Silicon 11, 81
 Silicon Valley 9, 11
 Silk industry 9, 22
 Silliman, Benjamin, Jr. 2, 7; 12, 35-38; 15, 9-14; 17, 49
 Silliman, Benjamin, Sr. 2, 7; 6, 23, 24; 12, 36; 15, 9
 Silliman chemistry text 12, 35-38
 Sillimans' journal 11, 79
 Simon, W. 6, 17
 Simpson, Maule & Nicholson 9, 8
 Simple substances, Lavoisier's 5, 5, 35, 43
 Slack, E. 5, 46
 Slater, J. 13, 49
 Slide rules, chemical 12, 24-28
 Small, L. 19, 51
 Smeaton, W. 8, 4
 Smelting 20, 62, 63
 Smirnoff, A. P. 20, 55
 Smith, A. 6, 32, 34
 Smith, C. S. 4, 24
 Smith, E. F. 1, 13, 20, 21; 3, 17; 4, 6; 6, 3; 7, 18; 10, 21-25; 13, 44; 19, 23
 Smith, I. B. 10, 32, 33
 Smith, Capt. J. 9, 19, 20
 Smith, T. P. 2, 6, 7; 10, 36
 Smithsonian Inst. 4, 26; 12, 26, 27
 Smoke analysis 20, 64
 Sobolev, N. N. 6, 9
 Société d'Arcueil 5, 8
 Soddy, F. 4, 17, 18; 6, 8
 Sodium basket 7, 38, 39
 Sodium spoon 7, 38, 39
 Sommerfeld, A. 4, 19, 20; 7, 6
 Solid-phase functional group analysis 17, 37
 Solvatochromic scale 19, 72, 76
 Solvay Conference 19, 60
 Sommer, L. 19, 51
 Sons of Gwalia 12, 4, 5
 von Soxhlet, F. 3, 17
 Späth, E. 17, 31
 Speakman, J. C. 7, 6
 Spectroscope 8, 6
 Speisewasser 15, 6
 Spence, P. 9, 5
 Spencer, Lord 11, 81
 Spirit of marine salt 5, 19
 Spiritualism, 11, 30, 31
 Spot tests 17, 33-37, 52
 Spotswood, A. 9, 20, 21
 van Spronson, J. 3, 14
 St. Louis Exposition 3, 25
 Staedeler, G. 12, 13; 20, 28

- Staffordshire iron 17, 51
 Stahl, G. E. 5, 3; 13, 37; 20, 2,4,6,7
 Stark, J. 13, 48-51
 Starkey, G. 13, 19, 21
 Stas, J.-S. 13, 62
 Steele, J. D. 15, 55-58
 Stein, W. 17, 7
 Stewart, C. 17, 50
 Steinbeck, R. 7, 17
 Stereochemistry, textbooks 15, 31-35
 Stein, W. 17, 7
 Stewart, C. 17, 50
 Stewart, T. D. 7, 3
 Stieglitz, J. 13, 41, 48; 15, 38; 19, 50
 Stilwell, C. 13, 52-54
 Stirrer apparatus 8, 35
 Stock, A. 11, 47-49
 Stoddard, W. 9, 25
 Stoddard, J. T. 9, 37, 38
 Stoddard test tube clamp 9, 37
 Stone, W. E. 3, 20; 6, 16, 17
 Stoney, G. J. 11, 94-97
 Storey, A. M. 11, 19
 Strassburg Un. 4, 4, 5
 Strassman, F. 3, 15, 16
 Stromeyer, F. 4, 3
 Strutt, R. J. 11, 97
 Strychnine 19, 44
 Sturchio, J. L. 2, 24, 25
 Sturgeon's apparatus 11, 78
 Substitution, Dumas law of 8, 10
 Sugar beets 17, 11; 20, 21
 Sugar of Saturn 3, 8
 Sugden, S. 20, 14, 16
 Sulfide, detection 4, 34
 Sulfinates, resolution 20, 16
 Sulfoxides, discovery 17, 22-24, 27
 Sullivan, F. 6, 22
 Surfactants 19, 73-76
 Sutter, H. A. 17, 34
 Sutton, L. E. 19, 62
 de Suvigny, L. J. 3, 22, 23
 Swain, R. E. 20, 61, 64
 Symbols, chemical, of Hassenfratz and Adet 3, 7, 8, 10
 Synartetic acceleration 19, 35, 40, 44
 Synionie 19, 59-62
 Szabadvary, F. 3, 12, 13; 20, 46-49
 Széchenyi, I. 20, 49
- T**
 Tafel, J. 4, 7
 Talbott, B. E. 4, 6
 Tatum, Mr. 11, 82, 83
 Tar 9, 21
 Tarbell, A. T. 4, 31
 Tarbell, D. S. 4, 31
 Tarnowsky, J. 6, 22
 Tartarus citratus 3, 8
 Taubes, S. 17, 31
 Tautomeric effect 19, 28-31, 33-35
- Taylor, H. 6, 29
 Tax Farm 5, 12, 15, 16
 Teachers and hist. chem. 8, 3-8
 Tennant, S. 11, 80
 Tennessee, Un. 3, 26
 Tenteleo Chem. Plant 17, 17
 Terminology, physical organic 19, 33-40
 Terra anglica rubra 3, 8
 Test tube 11, 72
 Tetrachloroethylene 11, 6
 Tetrahydron 7, 5
 Texts, early American chemistry 2, 6-10
 Thackray, A. 4, 25
 Tharsis Chem. Co. 9, 4
 Thenard, L.-J. 5, 7, 9; 10, 5, 6; 13, 36
 Thiele, F. K. J. 13, 50; 19, 26; 20, 13-15
 Thiersch, K. 13, 36
 Thilorier, M. 11, 24
 Thomas, C. A. 20, 35
 Thomas Iron Co. 17, 52, 54
 Thomists 6, 5
 Thompson, B. (Count Rumford) 5, 6
 Thompson, S. P. 11, 12-16, 67; 17, 10
 Thoms, G. 3, 19
 Thomsen, J. 6, 29
 Thomson, G. M. 7, 14
 Thomson, J. J. 6, 30, 31; 11, 80, 95-97; 13, 48; 15, 38; 19, 13, 21, 22; 20, 11, 13, 14
 Thomson, T. 2, 7; 5, 7, 41, 46; 9, 3; 10, 36; 12, 24, 28; 13, 62
 Thomson, W. 15, 5
 Thorpe, E. 20, 42, 43
 Thorpe, J. F. 19, 2, 3, 13, 14, 23, 29, 34, 43, 49; 20, 14, 42-44
 Thorpe, T. E. 6, 32, 33
 Thorpe-Ingold effect 19, 43
 Tilden, W. 20, 44
 Tillet, M. 4, 13
 Tin, analysis 20, 19
 TNT 9, 6
 Tobacco 9, 20
 Todd, A., Lord 20, 43
 Todd, A. M. 6, 17;
 Todd, D. 20, 37
 Todd, M. 4, 18
 Tollens, B. 4, 5
 Tommasi, D. 6, 29, 33
 Toricelli, 8, 5
 Torrey, J. 6, 24; 12, 26, 27
Traité Élémentaire de Chimie 5, 34-37
 Transistor 9, 11
 Transmutation 13, 60
 Transylvania Un. 8, 22
 Traube, M. 6, 34, 35
- Tribe, A. 6, 31, 32, 34
 Trimble, H. 6, 17
 Trudaine lens 4, 12
 Tschirnhausen mirror 4, 12
 Tube chemistry 11, 72, 77
 Tübingen Un. 4, 4, 5
 Turgot, A. R. 5, 13-15
 Turkey red 17, 17
 Turner, E. 6, 23, 24; 20, 25
 Tutenage 11, 53
 Tyndall, J. 11, 3, 5, 7, 11-13, 15, 16
 Types, theory of 8, 11
 Tyrian purple 1, 14; 9, 8
 Tytler, J. 10, 34-38
- U**
 Uehara, Y. 7, 11
 Uhink, W. 8, 14
 Uhlenbeck, G. E. 6, 8
 Un. Coll. London 4, 6; 19, 2-9, 19-24
 Union Oil Co. 8, 16
 Universitätsbibliothek, München 4, 4
 Upjohn 17, 6
 Uranium 8, 6; 11, 82
 Uratom 15, 49, 53
 Urbain, G. 19, 59
 Urea, Wöhler's 13, 62; 20, 51
 Uric acid 17, 36
 US Geol. Survey 12, 3, 4
 US Nat. Mus. 4, 26
 Usherwood, E. 20, 44
- V**
 Vagner, E. E. 17, 25-28
 Valence 2, 16
 Valence block set 1, 9
 Valency, history 9, 3
 Valley of death 1, 11, 12
 Vámos, E. 20, 49
 van Arkel, A. E. 13, 48, 49, 54, 55
 van Arkel triangle 13, 47, 54-57
 van der Capellen, H. 17, 44
 van Maets, C. L. 10, 3
 van Rensselaer, S. 12, 26
 Van Slyke, D. D. 17, 6
 van't Hoff, J. H. 3, 17; 6, 26; 7, 5, 27, 29, 30, 31; 12, 10-12, 16-21; 15, 31, 34, 35, 45-49; 19, 59, 62
 Varrentrapp, F. 13, 34
 Vauquelin, L. N. 5, 8, 9
 Vermont Acad. Med. 12, 26-28
 Vickery, H. B. 17, 6, 7
 Vieweg, E. 13, 31
 de la Villette, F. 4, 12
 Villette mirror 4, 12
 Vilmos, A. 20, 51
 Violet imperial 9, 8
 Virginia, colonial 9, 19
 Vital air 5, 7
 Vogt, C. 10, 9

Vollhard, J. 13, 34
Volta pile 11, 86
Vulgar chemistry 13, 24

W

Wadsworth-Emmons olefination 17, 27
Wagner oxidation 17, 26
Wagner-Meerwein rearrangements 19, 35, 44
Walden inversion 19, 44, 67
Wallace, A. R. 6, 5, 6
Wallach, O. 4, 5
Wallis, E. S. 15, 38-40
Walsh, A. D. 6, 11
Waltham Abbey 9, 6
Warburton, H. 11, 21-23, 25, 26
Warden, R. B. 19, 49
Warder, 3, 20
Wartire, J. 15, 16
Warren, W. H. 9, 17, 18
Washburn, E. W. 7, 32
Washington, A. 9, 21
Washington, B. 9, 23
Washoe Smelter 20, 60-64
Waters, W. A. 20, 10, 16
Watson, H. B. 15, 42; 19, 13, 23, 31; 20, 10
Watt, J. 5, 40
Watts, H. 12, 33
Wavell, W. 11, 19, 80
Weber, W. E. 11, 96
Webster, J. 6, 23; 10, 5, 6, 9
Wedgewood, J. 15, 16
Wedgewood's pyrometer 8, 26
Weeks, M. E. 3, 11
Weems, J. 9, 23
Weems, J. B. 9, 16, 18
Weidenfeld, L. 17, 31
Weisslberg, K. 17, 31
Welch, A. J. E. 20, 43
Wellcome Mus. Hist. Med. 4, 26
Wellesley College 15, 31, 32, 35
Wells, H. G. 17, 6
von Welsbach, A. 17, 16
Weltausstellung, Wien 3, 17
Welther's tube 11, 79
Wendt, G. L. 6, 30
Werner, A. 4, 23, 24; 19, 26, 67; 20, 50-56
West, J. 7, 9
West, P. W. 17, 33, 35

Westby, G. 20, 60
Westheimer, F. 19, 48, 50-53
Wetherill, C. M. 4, 5
Weyde 11, 73
Weyl, W. 6, 9
Wharton, J. 17, 54
Wharton furnace 17, 52
Wheatstone, C. 11, 96
Wheland, G. W. 6, 8; 19, 20, 30, 48, 51, 52
Whewell, W. 11, 5, 30, 32, 34, 80
White, G. F. 9, 17
Whiteley, M. A. 20, 42-44
Whitmore, F. C. 15, 38-42; 19, 48, 50-52
Wichelhaus, H. 12, 13
Wichmann, A. 17, 2
Widnes 9, 4
Wiechert, E. 19, 21, 22
Wieland, H. 4, 20
Wigner, E. 19, 15
Wilcke, J. C. 5, 6
Wiley, H. W. 3, 16-19; 6, 15, 16, 19, 20; 13, 45; 20, 60
Wilkinson's galvanic trough 11, 78
Will, H. 7, 19, 22
Willard, H. 6, 7
Willard, J. T. 6, 17
Willcock, E. G. 17, 5
William, T. I. 3, 14
Williams, J. 7, 6
Williams, C. G. 11, 73
Williams College 4, 6
Williamson, A. 4, 6; 7, 20; 11, 96; 13, 31, 35, 37, 64
Willm, E. 6, 34
Willstätter, R. 4, 17, 19., 20
Wilson, C. L. 19, 3, 15-17
Wilson, R. E. 6, 21
Wine lees, alkali of 3, 8
Winstein, S. 19, 35, 43-45, 48, 50, 51
Winthrop, J. 17, 43, 44
Wislicenus, G. 20, 28, 29, 31
Wislicenus, J. 4, 5, 7; 7, 20, 21; 9, 16; 12, 10; 15, 45-50, 52, 53; 20, 28-31
Wislicenus, J. (Hans) 20, 28
Wislicenus, W. 20, 28
Wisser, 11, 73
Wistar, C. 8, 18, 20, 21
Witt, O. 3, 20; 9, 9, 10

von Witte, S. 17, 17
Wittig reaction 15, 61
Wöhler, F. 3, 24; 4, 3; 7, 22; 13, 31-34, 36
Wolf, K. L. 7, 11
Woll, F. W. 6, 17
Wollaston, W. H. 8, 24, 25; 11, 19, 20, 22, 25, 36, 37, 72, 73, 79, 80, 83; 12, 24-26, 28
Wood, G. B. 15, 27
Woodhouse, J. 5, 41; 8, 21
Woods, C. D. 6, 17
Woods, H. J. 7, 8
Woodward, R. B. 19, 43-45
World War I 13, 40-46
World's Congress of Chemists 3, 16-21
Wotiz, J. H. 4, 24, 25
Woulfe bottles 8, 24, 34
Wulf, O. 7, 10
Wurtz, A. 5, 3; 6, 29, 33; 7, 20, 22, 25; 8, 8; 12, 15; 13, 33-35, 37; 17, 23; 19, 58; 20, 2, 4
Wurtz, H. 17, 46
Würzburg Un. 4, 4-6
Wüst, P. 20, 54

X-Y

X-rays 8, 6, 7
Yale College 4, 3
Yapp, D. 20, 44
Yeh, P.-Y. 13, 53-56
Young, T. 5, 6; 11, 38, 77
Young, W. G. 19, 45, 48, 51

Z

Zachariasen, W. H. 7, 8
Zachariasen theory 6, 9
Zaitsev, A. M. 7, 25; 17, 21-28
Zaitsev, M. M. 17, 25
Zaitsev, M. S. 17, 21
Zamboni's apparatus 8, 26
Zeeman Effect 11, 96
von Zeerleder, A. 17, 19
Zein 17, 2, 4, 5
Zelinski, N. D. 17, 28
Zenghelis, C. 6, 33
Zinc reagents 17, 25, 26, 28
Zinggler, E. 20, 55
Zinin, N. N. 7, 25, 26; 17, 21, 23
Zintl, E. 13, 51, 57