

INDEX TO VOLUME 9

PREPARED BY EDW. F. HOLDEN

Original articles are in **bold face type**; abstracts and cross references are in ordinary type. To save space, only minerals described in more or less detail are indexed; titles of abstracted articles are not cross-indexed under authors' names; titles of articles by two or more authors are given only under the name of the senior author.

Agate, Vosges (Renck).....	119	Borisov, P. A.....	232
Alabandite, structure (Wyckoff)	121	Bornite as a furnace product	
Albite, Katanga (Cesaro, Belliere)	233	(Guild)	201
— Rischuna (Krebs)....	122	Boron, spectroscopic analysis	
Allactite (Aminoff).....	122	(Lacroix, de Gramont).....	22
Alling, H. L.....	43	Boulangerite (Shannon).....	140
Alnoite, monticellite- (Bowen) .	42	Bowen, N. L.....	42, 211
Alpine minerals (Koenigsberger) .	20	Braly, A.....	44, 214
Alum, structure (Valenton).....	121	Brauns, R.....	158
Aminoff, G.....	43, 121,	Brookite, Bobrúvka (Ulrich)....	176
Amphibole, Japan (Marek).....	176	Browning, Glenn.....	20
Andalusite from Cal., new use,		Bruce, E. L. and Greenland, C. W.	
thermal properties (Peck) .66,	123	Low iron epidote from Por-	
Andalusite, Vorarlberg (Cornelius)	119	cupine	199
Anglesite, etc. (Shannon).....	40	Bryan, Kirk.....	198
Anorthite, Vesuvius (Kratzert) .	122	Buttgenbach, H.....	140, 173, 212
Ansheles, O.....	232		
Antimony, native (Behre).....	99	Cady, W. G.....	215
Atomic volume isomorphism		Calcite replaced by gypsum (Ret-	
(Wherry)	165	ger)	153
Augite; Vesuvius, Etna (Washing-		— Shangoinah I. (Parsons) .	119
ton, Merwin).....	21	Campo-Lungo minerals (Mühlen-	
Ayres, V. L. Pyrite from Tucson .	91	thal).....	215
		Canbyite (Hawkins and Shannon)	1
Bamberger, M.....	41	Carrollite, remingtonite (Shannon)	66
Behre, C. H. Jr.....	99	Catalonia, minerals (Tomas)....	233
Belgian Congo minerals (Butteng-		Celestite, strontianite (Dravert)	197
bach).....	140	— Messina (Ranfaldi)....	216
Belliere, M.....	233	Centrallasite; Crestmore, Cal.	
Berthonite (Buttgenbach).....	173	(Foshag)	88
Beutell, A.....	100	Ceruleofibrite is connellite (Hol-	
Biographical notices (Spencer) .	122	den)	55
Biotite (Grout)	159	Cesaro, G.....	233
Blowpipe assaying (Hunt) .69,	145	Chabazite, gas absorption by	
Blowpipe reactions of oxides		(Nacken, Wolff).....	100
(Braly).....	214	Chalcocite, action of Cu salts on	
Böggild, O. B.....	19	(Wells).....	68
Bohemian minerals (Jezek; On-		Chapmanite (Walker).....	66
drej; Slavik; Slavikova) .20, 197, 233		Chinkolobwite (Schoep).....	156

- Chirvinsky, P. N. 20
- Chirvinsky, V. N. 118, 155
- Chlorites (Shannon) 40
- Chloroxiphite (Spencer, Mountain) 96
- Chrysoberyl pegmatite, Hartford, Me. (Palache)** 217
- Cinnabar, Avala (Svetolik) 232
- light-electrical properties (Rose) 197
- Clark, T. E. 43
- Clarke, J. R. 41
- Clinozoisite; Lower Cal. (Rogers)** 221
- Coats, blowpipe (Braly) 44
- Colemanite deposit (Gale) 99
- Colloids and mineralogy (Rinne) 216
- Collophane, compn. (Rogers) 67
- Coloration, artificial (Gaubert) 41
- Colors at low temps. (Bamberger, Grengg) 41
- Connellite 55
- Co Ni arsenides; Cobalt (Walker, Parsons) 66
- Conductivity of crystals (Röntgen) 198
- Cook, C. W. Marcasite; Racine, Wis.** 151
- Copiapite; Santa Maria Mts., Cal. (Schairer and Lawson)** 242
- Copper, unusual specimens (Kraus)** 23, 67
- Cordierite, Korea (Komada) 214
- radiated (Ansheles) 232
- Cornelius, H. P. 119
- Cornetite (Cesaro) 233
- Correction (Lind)** 35
- Cosalite, Ontario (Walker) 100
- Crednerite (Spencer, Mountain) 97
- Croydon minerals (Davies) 20
- Crystal, at the surface of a (Wherry)** 45
- Crystallographic notes (Hawkins) 65
- Crystal structure Ti, Zr, Ce, Th, Os (Hull) 197
- Cyanite, unusual occurrence of (Wallace)** 69, 129
- Davies, G. M. 20
- Debeaupuis 214
- de Gramont 22
- Dennis, L. M. 21
- Diabantite, etc. (Shannon) 40
- Diaboleite (Spencer, Mountain) 97
- Diamond, inclusions in (Sutton) 42
- Diaspore, libethenite (Cesaro, Beliere) 233
- Dioptase, plancheite; Guchab (Henglein) 140
- Doelter, C. 41
- Dolomites (Harding, Everman, *et al*) 20
- Dravert, P. 197
- Dumortierite; Mexico (Wittich, Kratzert) 99
- Duparc, Louis 214
- Eclogites; Norway (Eskola) 120
- Eitel, W. 157
- Ellsworth, H. V., see Poitevin, E.** 188
- 21, 216
- Ellsworthite (Walker, Parsons) 16
- Elschner, Karl 156
- Epidote in granite (Duparc) 214
- Epidote, low iron, from Porcupine (Bruce and Greenland)** 199
- Eskola, P. 120
- Everman, Irene 20
- Fairchild, J. G. 21
- Fassaite, composition (Zsivny) 215
- Feldspars, composition (Seto) 40
- Fichtelgebirge minerals (Mieleitner) 119
- Field book of common rocks and minerals (Loomis) [book review] 138
- Flink, G. 174
- Flint, E. 176
- Fluorite, color (Doelter; Geijer; Sakao, Hirose) 41
- formation (Wetzel) 44
- Madoc (Wilson) 99
- Foshag, W. F. Centrollasite; Crestmore** 88
- **Freirinite, a new mineral** 30
- **Furnace Creek, Cal.** 8

- Foshag, W. F. Lavendulan; Joachimsthal** 29
 ———— Obsidian Cliff 68
 ———— **Priceite; Cal.** 11, 94
 ———— 20, 100, 122, 140
 Fourmarierite (Buttgenbach) 212
Freirinite (Foshag) 30
 Friedel, G. 215
 Friedel's law (Rogers) 65
Fuller, Margaret B. Witherite at Many Glacier, Mont. 154
Furnace Creek locality (Foshag) 8, 11
 Gale, Hoyt S. 99
 Galenobismutite (Shannon) 99
Ganophyllite; Franklin Furnace (Larsen and Shannon) 238
 Garnet, miscibility (Eitel) 157
 ———— Ouessant (Debeaupuis) 214
 Gaubert, P. 41
 Geijer, Per. 41
 Germanite, mineralography of (Thomson) 66
 Germanium in samarskite (Dennis, Papish) 21
 G. rms, H. C. 158
 Glass, effect of rays on (Clarke) 41
 Glauconit (Hallimond) 118, 198
 Gledhill, T. L. 119
 Goldschmidt, V. 19
 Gossner, B. 40
 ———— *Lehrbuch der Mineralogie* [book review] 155
 Graphite, origin (Clark; Alling; Winchell) 43
 Gray, O. J. 44
Greenland, C. W., see Bruce, E. L. 199
 Greig, J. W. 211
 Grengg, R. 41
Grout, F. F. Notes on biotite 159
 ———— and Thiel, G. A. **Stilpnomelane** 228
 Gudden, B. 42
Guild, F. N. Bornite as a furnace product 201
 Gypsum, crystallography (Rosicky) 19
 Haas, J. O. 20
 Halite, symmetry (Rosicky) 19
 Hallimond, A. F. 118, 121, 158, 198
 Haloes, pleochroic (Gudden) 42
 Harding, C. L. 20
 Harker, A. *Petrology* [book review] 173
 Harmotone, Udo (Kinoshita) 214
 Hausmannite; Ark. (Miser, Fairchild) 21
Hawkins, A. C. Crystallographic notes 65
 ———— and Shannon, E. V. **Canbyite** 1
 Henglein, M. 120, 140
 Heulandite, water in (Beutell) 100
 ———— (Scheumann) 44
Hinrichs, Gust. (Keyes) 5
 Hirose, M. 41
Hisingerite, Parry Sound (Schwartz) 141
 ———— 2
 Hoegbomite, Va. (Watson) 67
 Hoelite (Ofstedal) 118
Holden, E. F. Cause of color in rose quartz 67, 75, 101
 ———— **Ceruleofibrite is con-nellite** 55
 ———— **Sarcopside** 205
 ———— book review 155
 Hot Springs, Ark. (Bryan) 198
 Hull, A. W. 158, 197
Hunt, W. F. Blowpipe assaying; Pb, Cu, and Ag ores 69, 145
 ———— **Improved Wentworth recording micrometer** 190
 ———— book reviews 16, 138, 173
 Hydrocerussite (Spencer, Mountain) 98
 Hydrotalcite group (Foshag) 21
 Ice crystals, habit (Kalb) 121
 Identification of minerals (Gray) 44
 Inclusions, liquid (Nacken) 43
Index of liquid, method for checking (Rutherford) 207
 Iridosmine crystals (Gledhill) 119
 Iron hydroxides (Willmann) 44
 ———— sulfates (Scharizer) 22

- Isomorphism (Widmer) 215
- Jade, Tuxtla statuette (Washington) 214
- Jaeger, F. M. 158
- Jakob, J. 140
- Japanese mineral analyses (Shibata, Kimura) 39
- Jefferisite, Ti-; Westcliffe, Colo. (Waldschmidt)** 113
- Jezeek, B. 176, 197
- Johnsen, A. 42
- Kalb, G. 121
- Kaolinite, detn. in soils (Matejka) 234
- Katanga minerals (Lohest) 216
- , radium at (Schoep) 120
- Kempite (Rogers) 66
- Kerr, P. F.** Detn. opaque minerals by X-ray patterns 65
- **Rotation apparatus** 169
- Keyes, Chas. Gust. Hinrichs** 5
- Kimura, K. 39
- Kinoshita, K. 18, 214
- Kochite (Kozu, Seto, Kinoshita) 18
- Koenigsberger, J. 20
- Komada, I. 214
- Kozu, S. 18
- Kratzert, J. 99, 122
- Kraus, E. H. Unusual specimens of copper** 23, 67
- book reviews 154, 172
- Krebs, Berta 122
- Kunz, G. F. 121
- Kurskite (Chirvinsky) 118, 155
- Lacroix, A. 22
- Mineralogie de Madagascar [book review] 155
- Lansfordite; Atlin, B. C. (Poitevin)** 225
- Larsen, E. S. and Schaller, W. T.** Variscite, peganite, and lucinite 69
- **and Shannon, E. V. Wardite** 66
- **Ganophyllite, Franklin Furnace, N. J.** 238
- Lavendulan; Joachimsthal (Foshag)** 29
- Lawson, C. C., see Schairer, J. F.** 242
- Lazulite, Georgia (Watson) 100
- Lead sulfates, etc. (Jaeger, Germs) 158
- Lehrbuch der Mineralogie (Gossner) [book review] 155
- Leiss, C. 158
- Levison, W. G. (obituary notice) 195
- Liesegang, R. E. 216
- Lillianite, galenobismutite (Walker, Thomson) 43
- Lind, S. C. A correction** 35
- Linneite, Katanga (Schoep) 120
- Lohest, Max 216
- Longchambon, L. 233
- Loomis, F. B. Field book of common rocks and minerals [book review] 138
- Lubeckite (Morozewicz) 39
- Madagascar minerals (Kunz) 121
- Marcasite from Racine, Wis. (Cook)** 151
- Marek, M. J. 176
- Margarite, Cr-colored; Md. (Shannon)** 194
- Martens, J. H. C. Scorodite from N. Y.** 27
- Mason, O'Neal 20
- Matejka, J. 234
- Mayaite (Washington) 18
- Melilite at Lazio (Millosevich) 100
- Melon, Joseph 216
- Mendipite (Spencer, Mountain) 97
- Merrill, G. P. Quartz in meteoric stones** 112
- 42
- Merwin, H. E. 21
- Meteorites, catalogue (Prior) [book review] 16
- Meyersite (Elschner) 156
- Micrometer, improved Wentworth recording (Hunt)** 190
- Mieleitner, K. 119
- Mikroskopische Physiographie (Rosenbusch-Wülfing) [book review] 172
- Millosevich, F. 100

- Mineralogical Society of America
 annual meeting 56
 by-laws, amendment to 57
 election of officers and fellows . . 56
 fellows; additions, corrections . . 70
 members; additions, corrections
 papers read before 65
 report of comm. on nomen-
 clature, etc. 50
 report of editor, 1923 59
 report of secretary, 1923 58
 report of treasurer, 1923 58
- Mineralogical Society of Wash-
 ington 14
- Mineralogie de Madagascar (La-
 croix) [book review] 155
- Miser, H. D. 21
- Monticellite from slag (Hallimond) 121
- Morenosite, Joachimsthal (Ulrich) 176
- Morozewicz, J. 38, 39
- Mountain, E. D. 96
- Mügge, O. 19, 42
- Mühlenthal, F. 215
- Mullite (Bowen, Greig, Zies) 211
- Myers, W. M. Oblique illumina-
 tion in mineragraphy 69, 177**
- Nacken, R. 43, 100
- Newark Mineralogical Society 38, 73
- New minerals (Spencer) 198
- New minerals 16, 34, 38, 96, 118, 155,
 173, 175, 211
- New York Mineralogical Club 14, 37,
 72, 95, 116, 195, 210
- Niggli, P. 121
- Niter deposits; Dubois, Idaho
 (Stearns) 135**
- Oblique illumination in minera-
 graphy (Myers) 69, 177**
- Obsidian Cliff minerals (Foshag) . . 68
- Oftedal, Ivar 118
- Orcel, J. 99
- Orthoclase, development in mag-
 ma (Johnsen; Walker) 42
 ——— growth in soil (Mügge). 19
- Palache, C. Chrysoberyl; Hart-
 ford, Me. 217**
 ——— Pegmatites, Maine 68, 217
- Papish, Jacob 21
- Paradoxite (Schüler) 22
- Parker, R. L. 215
- Parsons, A. L. Pectolite, apophyl-
 lite; Que 67
 ——— 16, 43, 66, 100, 119
- Peck, A. B. Andalusite from Cal.;
 new use; thermal proper-
 ties 66, 123**
- Peckhamite (Merrill) 42
- Pectolite, apophyllite, Que. (Par-
 sons) 67
- Pegmatites, Maine (Palache) 68
- Petrology (Harker) [book review] 173
- Phenacite, Oberlausitz (Henglein) 120
- Philadelphia Mineralogical Society 13,
 36, 73, 96, 117, 156, 171, 231
- Phillips, A. H. Thomsonite;
 N. Y. 67, 240**
- Phosphorescent sulfides (Tiede,
 Schleede) 197
- Piezo-electric resonator (Cady) . . . 215
- Pilz, R. 19
- Plastic crystals of NH_4NO_3 (Bond) 198
- Poitevin, E. Lansfordite; Atlin,
 B. C. 225**
 ——— and Ellsworth, H. V.
Optical data for sussexite 188
- Polymorphous substances
 (Brauns) 158
- Porter, Mary. Note on struvite . . . 93**
- Priceite; Cal. (Foshag) 11, 94**
- Prior, G. T. Catalogue of meteor-
 ites [book review] 16
- Puertollano minerals (Melon) 216
- Pyrargyrite twins (Böggild *et al.*) . . 19
- Pyrite; Tucson (Ayres) 91**
 ——— morphology (Ulrich) 176
- Quartz in meteoric stones (Mer-
 rill) 112**
 ———, isotropic (Winchell) 235
 ———, rose, cause of color
 (Holden) 67, 75, 101
 ———, color (Wild, Liesegang) 216

- Quartz**, geol. thermometer
 (Mügge) 42
 ———, smoky (Raman)..... 41
- Radium bearing pegmatites, Ont.
 (Ellsworth)..... 21, 216
- Radley, E. G. 198
- Raman, C. V. 41
- Rammelsbergite, Ont. (Walker,
 Parsons)..... 100
- Ramsdell, L. S. Strychnine sulfate 65
- Rancieite (Haas)..... 20
- Ranfaldi, F. 216
- Realgar at Matra (Orcel)..... 99
 ——— (Pilz, Schröder, Thost).. 19
- Refractometers (Leiss, Thomas,
 Hallimond)..... 158
- Remingtonite (Shannon)**..... 208
- Renck, Julius..... 119
- Rettger, R. E. Calcite replaced by
 gypsum**..... 153
- Rinne, F. 216
- Rogers, A. F. Clinzoisite; Lower
 Cal**..... 221
 ——— Compn. of colophane.. 67
 ——— Friedel's law..... 65
 ——— Kempite..... 66
- Röntgen, W. C. 198
- Rose, H. 197
- Rosenbusch-Wülfing. Mikro-
 skopische Physiographie [book
 review]..... 172
- Rosicky, V. 19, 20
- Rotation apparatus (Kerr)**..... 169
- Rotatory power (Longchambon).. 233
- Rothrock, A. W. 20
- Ruff, Otto..... 158
- Russian minerals (Chirvinsky)... 20
- Rutherford, R. L. Method for
 checking index of a liquid**... 207
- Sakao, T. 41
- Sarcopsidite (Holden)**..... 205
- Scapolite (Winchell)**..... 108
- Schairer, J. F. and Lawson, C. C.
 Copiapite; Santa Maria Mts.,
 Cal**..... 242
- Scharizer, R. 22
- Scheumann, K. H. 44
- Schleede, A. 197
- Schmidt, Paul..... 158
- Schoep, A. 120, 156
- Schröder, R. 19
- Schüler, W. 22
- Schwartz, G. M. Hisingerite;
 Parry Sound**..... 141
 ——— **Xonotlite; Minnesota**.. 32
- Scorodite; New York (Martens)** 27
- Seto, K. 18, 40
- Shannon, E. V. Cr-colored mar-
 garite; Md**..... 194
 ——— **Remingtonite**..... 66, 208
 ——— Carrollite..... 66
 ——— **see Hawkins, A. C.**... 1
 ——— **see Larsen, E. S.**... 238
 ——— 40, 99, 122, 140
- Shibata, Y. 39
- Shumaker, J. B. 20
- Silica, stability (Wietzel)..... 157
- Silicates, constitution (Gossner).. 40
 ——— in dolomites (Borisov). 232
- Silver nitrate, action on FeS₂
 (Kinoshita)..... 214
- Slavik, F. 20, 233
- Slavikova, L. 233
- Soil minerals (Whitney)..... 43
- Solid soln.; isomorphism (Jakob) 140
- Spectrum of silicates (de Gra-
 mont)..... 22
- Spencer, L. J. 44, 96, 122, 198
- Spencerite (Walker, Parsons).... 43
- Stannous sulfide (Spencer)..... 44
- Staszicite (Morozewicz)..... 38
- Staurolite twins (Friedel)..... 215
- Stearns, H. T. Origin of niter de-
 posit; Dubois, Idaho**..... 135
- Stibnite, morphology (Jezek).... 176
- Stilpnomelane (Grout and Thiel)** 228
- Struvite (Porter)**..... 93
- Strychnine sulfate (Ramsdell).... 65
- Sulfo-salt minerals, classification
 (Wherry, Foshag)..... 100
- Sulpho-salts of Pb and Cu, iso-
 morphism in (Foshag)..... 140
- Sussexite, optical data (Poitevin,
 Ellsworth)**..... 188

- Sutton, J. R. 42
 Svetolik, S. 232
 Symmetry in crystal axes (Niggli) 121
 Swedish mineralogy (Aminoff) . . . 43
- Thiel, G. A., see Grout, F. F.** . . . 228
 Thomas, H. H. 158
 Thomas, Ellis Germanite, mineral-
 ography 66
 ———— 43
- Thomsonite; New York (Phil-
 lips)** 67, 240
 Thost, V. 19
 Tiede, E. 197
 Tomas, L. 233
 Topaz (Rosicky) 20
 Trevorite (Crosse, Walker) 98
 Trumbull, Conn.; minerals
 (Shannon) 99
 Tuxtlite (Washington) 18
- Ullmannite, Harz (Mieleitner) . . . 119
 Ulrich, F. 176
 U. S. National Museum collec-
 tions (Foshag, Shannon) 122
- Valenton, J. J. P. 121
 Vanadinite, Transvaal (Wagner). 139
 Vapor pressure of Si, Al, and Ca
 oxides (Ruff, Schmidt) 158
 Variscite, peganite, lucinite (Lar-
 sen, Schaller) 69
- Wagner, P. A. 139
**Waldschmidt, W. A. Ti-jefferi-
 site; Westcliffe, Colo.** 113
 Walker, T. L. Chapmanite. 66
 ———— 16, 42, 43, 98, 100
 ———— and Parsons, A. L. Co-
 Ni arsenides 66
- Wallace, R. C. Cyanite, unusual
 occurrence.** 69, 129
- Wardite (Larsen, Shannon) 66
 Washington, H. S. 18, 21, 214
 Watson, T. L. Hoegbomite, Va. 67
 ———— 100
 Wells, R. C. Action Cu salts on
 chalcocite 68
 Weslienite (Flink) 174
 Wetzel, W. 44
**Wherry, E. T. At the surface of a
 crystal.** 45
 ———— Atomic volume iso-
 morphism 165
 ———— 100
 Whitney, Milton 43
 Widmer, E. 215
 Wietzel, Rudolf. 157
 Wild, G. O. 216
 Willmann, Karl. 44
 Wilson, M. E. 99
Winchell, A. N. Isotropic quartz . 235
 ———— Scapolite 108
 ———— 43
- Witherite at Many Glacier,
 Mont. (Fuller)** 154
 Wittich, E. 99
 Wolff, W. 100
 Wulfenite; Kas-Kai-Gur (Flint) . . 176
 Wyckoff, R. W. G. 121
- Xonotlite; Minnesota (Schwartz).** 32
 X-ray analysis 13 metals (Hull) . . 158
 ———— patterns in detn. opaque
 minerals (Kerr) 65
- Yxsjö minerals (Zenzen) 120
 Zenzen, N. 120
 Zeolite, paragenesis (Parker) . . . 215
 Zies, E. G. 211
 Zincite, structure (Aminoff) 121
 Zsivny, V. 215