## THE AMERICAN MINERALOGIST

INDEX TO VOLUME 52, 1967

## HOW TO USE THE KWIC INDEX

This index is in a new and more useful form: a modification of Key Word In Context$K W I C$. The index is in two parts: an author finding list, and a $K W I C$ index of titles.

The author list includes authors of all items indexed, with a code letter to identify the type of item, as follows:

A Article<br>B Book Review (author of book)<br>C Abstract<br>M New Mineral Names (author of paper abstracted)<br>N Mineralogical Note<br>P Proceedings

This code is the first letter of a six- or seven-character alphanumeric reference. The next two numbers are the volume, 52 in all of this index, and the following four numbers are the page number in this volume. If more than one item appears on a page, they are distinguished by a final letter. For example, reading on the list

$$
\text { ARAKI } \mathrm{T} \quad \mathrm{~A} 521272
$$

means that $T$. Araki is one of the authors of an article (A) in this volume (52), beginning on page (1272).

In the title index the same form of reference is used, on the right margin. Every word that might be important in some title, is indexed along the left margin for all titles. Certain common words are not indexed for any title. For New Mineral Names, only the name of the mineral is listed. As a major aid in distinguishing among various titles that are indexed under the same word, as much as possible of the context is listed on the same line. Thus part of the title follows along after the index word, and near the end of the line, some of the preceding context is printed. Depending on the length of the title and the position in it of the particular index word, the beginning or end of the title may appear, indicated by the signal *. Alternatively, if the title is longer in either direction than there was room to print, this is indicated by the signal + . If the title is longer in both directions (from the indexed word) than there is room to print, the two parts of the context are separated by the signal //.

For example, looking for the word "aikinite," you will find the entry
AIKINITE,* +STRUCTURES DERIVED FROM THE STRUCTURES OF N521874
Aikinite, the indexed term, is the last word of a title. The preceding context, at the end of the line, gives the partial title, " . . . Structures derived from the structures of aikinite.", which is a Mineralogical Note (N) appearing in this volume (52) on page (1874).

To use the title index, pick a word that is important; the more unusual the word the less ambiguity in look-up. Find the index word along the left margin of the KWIC index. If it is listed more than once, use the context to identify the item wanted. The reference alphanumeric helps to identify the article, by its first code letter for the type of item, and gives the page reference as explained above.

This index was designed after a trial run on volume 51 for 1966 . The suggestions received from those who studied the trial index were very helpful in making modifications for the present system, and the editor welcomes suggestions for improving the index in future years.

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ARGENTINA．
＋NAGMGGB2404 ARGENTINA．${ }^{*}$ AMEGHINITE，NA20． 3 B 203.4 H 20 ．A NEW BORATE FROM GRKANSAS RIVER AREA，FREMONT COUNTY，／／ALKALIC ROCKS OF THE AROUNO AFRICA＊＊

N521198
N5 21206 N521206 A5214．93 N5 20877 A520380 N5 20553 N520555 P520580 P520576 A5 20832 N5 21575 N5 21895 M520561B A5 21067 A521027 B520302C A521451 A520263 N5 21874 A5 20227 A520974 A520055 A520055 A520414 A5 20389 N520867 B520302B A520817 A521706 A520254 A520690 A5 20149 A521785 A 520254 A5 20212 N521220 A5 20042 A521036 A521036 4520974 M5 215848 A521630 A 520935 A5 21706 A5 21785 M521586 A520414 N5 21247 A520171 A520359 M520560A P520592 N520858 M521580A N520896 A521386 A521725 N521570 A520957 N521527 A520326 A521776 A520935 A520817 B520302C
arSenate minerals. I. the crystal // the basic manganese ARSENITE.* ARTINITE FROM GABBS, NEVAOA. A CORRECTION IN IOCATION.* ASBECASITE.*
ASO4) AND RETZIAN, MN3 $2+\mathrm{Y} 3+10 \mathrm{H} / 4$ (AS
MN2 $2+$ MN3 $+(\mathrm{OH} 141$ ASO4).*+ MN2 2+MN3+(OH)4(ASO4) AND RETZIAN, MN3 $2+\mathrm{Y} 3+(0 \mathrm{H} \mid 4($ ASPECTS OF DIOCTAHEDRAL CHLORITE.* STRUCTURAL ASSIGNMENTS FOR THE SPECTRA OF FERROUS +5ELECTION RULES AND ATMDSPHERE PRESSURE.*+GYPSUM - ANHYDRITE EQUILIBRIUM AT ONE AUREOLE NEAR SALMO, BRITISH COLUMEIA/f - METAMORPHIC AUREOLE OF THE ELDORA STOCK, COLORAD// IN THE CONTACT AUREOLE.* + - ORTHOCLASE TRANSITION HITHIN A CONTACT AURORITE.*
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BAMGICO3l2.* A NEW OCCURRENCE OF NORSETHITE BAND NEAR $1000 \mathrm{CM}-1$ AND OH ABSORPTION BANDS+SI-O ABSORPTIDN BANOS OF CHLORITE.* + BAND NEAR 1000 CH-I AND OH ABSORPTION BARITE.* A REFINEMENT DF THE STRUCTIJRE OF BARITES.*

CARBONATITIC
BARIUM - ALUMOPHARMACOSIDERITE.*
BARIUM - PHARMACOSIDERITE.*
BARIUM - VANADIUM mUSCOVITE AND VANADIUM TOURMALINE FROM + barysilite and relations in the // LARSENITE, basalt - mugearite sill in piton des neiges volcata complex BASALT FRDM MAZE, NIIGATA PREFECTURE// AMYGDALES OF ALTERED BASALTS DF SOUTHERN AFRICA.* PROVINCES IN THE KARRDD basic manganese arsenate minerals. // chemistry of the BALZITE.*
BAZZITE。*
BEARING DN OSUMILITE - TYPE MINERALS// ROEDDERITE AND ITS BEHAVIOR OF SII2-X AND ITS RELATICN TO THE NATURAL + THERMAL BELT SERIES.* * METAMORPHISM OF ILLITE IN THE PRECAMBRIAN BERG - UND HIJTTENWESENS.* + DER GESCHICHTE DES SACHSISCHEN BERMANITE.* REEXAMINATION OF BERRYITE.*
BERRYITE.*
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BRITTLE MICAS.*

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A521603 M520300B
N5 20889
M521583B
4521603
A521603
A520673
N521508
A520171
A521869
A520117 A5 20087
M521581A
N521224
A521795
P520580
P520579
A5204 14 A520974
N5 21542
A521770
N521206
N5 21206
N521877
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M5215848
M521585A
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A521077
A521475
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4521451
A521603
M5205630
M520563C
N 1521519
4521662
$\$ 520843$
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A521060
M520928C
M5209280
M521583A
N521554
N520541 N520543 A5 20985 M5215858 N521527 B520302A N520902 N521901 N5 21573 N520877 N5 20294 M5215790 A520161 8520565A 4520149 4520326 A520935 A520020 A520817 N521247 A521669 4521122

BRITTLE MICAS＊＊＋MEMBER OF THE MARGARITE GROUP AND RELATED BROMELLITE CRYSTALS．＊GROWTH GF BROWN DERBY PEGMATITES，GUNNISON COUNTY，COLOR＋MICAS OF THE BROWN DERBY PEGMATITES，GUNNISON COUNTY，COLOR＋MICAS OF THE BUETSCHLIITE．＊
CACOCLASITE＊＊
CACO3－MGCO3－FECO3 BETWEEN 350 DEGREE／／IN THE SYSTEM CAFARSITE．＊
CALCIOGADOLINITE．＊
SYNTHESIS DF
CALGITE－TYPE POTASSIUM NITRATE．禹 OF ARAGONITE－TYPE TD CALCITE INVERTED FRGM ARAGONITE．事 BIAXIAL CALCITE SINGLE CRYSTALS．＊GROWTH OF SYNTHETIC CALCITES AND DOLDMITES．＊+ CONTENT OF SOME COEXISTING CALCIUM CONTENT．＊＋NEVADA GRANITIC ROCKS AS A FIINCTION OF CALCIUM IRON ARSENITE．＊ UNN AMED CALCIUM SILICATE，FROM MENDCCINO／／A NEW HYDROIS CALCULATION OF THE TOTAL ONE－DIMEN／／CLAY SYSTFMS． CALEDONIAN COMPLEX OF ULTRABASIC ALKALIC ROCKS AND CARB＋THE CALIFORNIA．A CORRECTION．＊＋TOURMALINE FROM MARIPOSA COUNTY． CALIFORNIA．＊GEOLOGY OF THE OROVILLE QUADRANGLE CALIFORNIA．＊$\quad$－CALCIUM SILICATE，FROM MENDOCINO COUNTY，

CALIFORNIA．＊
CAL I FORNIA．＊
CALIFORNIA。事
CAL IFORNIA．＊
CALIFORNIA．
CALIFORNIA CALZIRTITE FROM CARBONATITES OF NORTHERN SIBERIA．＊
CANADA． $\boldsymbol{+ 4}$ METAMORPHIC AUREOLE NEAR SALMC，BRITISH COLUMBIA， CAO－MGO－CO2－H2O AT CRESTMORE，CALIFO／／

OF THE SYSTEM CAPACITY OF CLAYS BY INFRARED SPECTR／／OF CATION EXCHANGE CARBIDE．A STUDY OF POLYTYPISM IN SILICON CARBON DIOXIDE AND SULFUR FUGACITES DURING DIAGENE FOXYGEN． CARBOMATE－EVAPORITE ENVIRONMENT．＊HUNTITE FROM A
CARBONATE APATITE．＊＋CONCENTRATIDN ON THE COMPOSITION OF CARBONATE HYDROXIDE AND ITS RELATION／／MAGNESIUM－ALUAINUM CARBONATE MINERALS．＊＋INFRARED（500－30 CM－I）SPECTRA OF SOME CARBONATITES AND ALKALIC ROCKS OF THE ARKANSAS RIVER AREA，＋ CARBONATITES OF NORTHERN SIBERIA．＊CALZIRTITE FROM CARBONATITES OF THE KOLA PENINSULA／／ALKALIC ROCKS AND CARBONATITIC BARITES．
CATION DISTRIBUTION IN THE CUMMINGTONITE $\rightarrow$ DETERMINATION OF CATION EXCHANGE CAPACITY OF CLAYS／／FOR DETERMINATION OF CATIDN EXCHANGE CHEMISTRY OF FELDSPA／／OXYGEN ISOTOPE AND CELL DIMENSIONS OF SOME ALUMINOUS NATURAL CLINOPYROXGUNIT－ CELL DIMENSIONS OF TOPAZ AND THEIR／／IN THE UNIT－ CELL PARAMETERS FROM WEISSENBERG／／PROGRAM FOR REFINING CELL PARAMETERS OF THE MICROCLINE－LON ALBITE AND＋UNIT－ CELL．＊＋THERMAL CURVES WITH A NEW HIGH TEMPERATURE CERAMICS AND HYDRAULIC BINOFRS．＊SILICATE SCIENCE VOL V CHANGES IN K－FELOSPAR STAINING METHODS AND MDAPTATIONS＋ CHARLES DAVIS JEFFRIES．＊

MEMORIAL OF CHARLOTTESVILLE，VIRGINIA．＊

LITHIOPHORITE FROM
CHARNOCKITE FROM SOUTHWEST NIGERIA．A REPIY． CHARNDCKITE FROM SOUTHWEST NIGERIA．A DISCUSSI＋MYRMEKITE IN CHEMICAL ANALYSIS OF MINERALS IN THIN－SECTIO\＆QUANTITATIVE CHEMICAL EFFECTS ON THE SIK BETA X－RAY LINE＋STRUCTURAL AND CHEMICAL STUDY OF WEATHERING GLAUCONITE．${ }^{\circ} \quad X$－RAY $A N D$ CHEMISTAY OF FELDSPARS．＊OXYGEN I SOTOPE ANO CATION EXCHANGE CHEMISTRY OF THE BASIC MANGANESE ARSENATE MINERALS．＋CRYSTAL CHERALITE．
CHEVRINITE ANO PERRIERITE．＊
THE CRYSTAL STRUCTURE OF A STUDY DF CHHOTA UDAIPUR，INDIA． CHLORITE DETERMINATION IN CLAYS OF SOILS AND MINERAL DEPOS＊ CHLORITE POLYTYPISM．IV．REGULAR TNO－LAYER STRUCTURES＊＊ CHLORITE．${ }^{(1)}$ STRUCTURAL ASPECTS OF DIOCTAHEDRAL

A521689
N5 21211
A521110
N521578
M520929B
M520929C
A5 20787
M521584A
N521523
A520957
N521527
N5 20276
N5 21530
A5 20832
M5 20300 B
A5 20336
A520661
B520302B
N5 21577
B520566B
A5 20336
N5 21885
B520566A
A520436
A5 20611
A521341
8520566 C
N521880
A521669
A521341
N5 21250
A5 20946
A521153
A5 21332
N5 20896
A521036
A520137
A520817
N5 21880
8520302B
A521179
A521009
N521250
A521414
A520042
N521890
N5 21570
A520055
A520509
B520302A
N521575
P5 20588
N5 21545
N520920
N520918
A520493
A5 20985
A521129
A521414
A521603
A520013
A5 21094
N5 21904
A521855
A521614
4520673

CHLORITE.* + BAND NEAR 1000 CM-1 ANO OH ABSORPTION BANDS OF CHLDRITES ANO BIOTITES.* GF THE IRON CJNTENT OF CHONDRITES.*

OLIVINE IN ENSTATITE
CHONDRITES.*
CHRCMITE FRDM 'EQUILIBRATED'
Chromite from eequllibrated' chondrites.*
CLASSIFICATION OF MINERALDGICAL SPECIES.* CRYSTALLOCHEMICAL CLASSIFICATION OF SIJLFOSALT STRUCTURES DERIVED FROM THE + A CLAY MINERAL SYNTHESIS. II. A RANDOMLY INTERSTRATIFIED +

## CLAY MINERALS.*

THERMOLUMINESCENCE DF
CLAY SYSTEMS. CALCULATION OF THE TOTAL ONE + INTEFSTRATIFIED CLAYS BY INFRARED SPFCTROSCCPY.*

EXCHANGE CAPACITY OF CLAYS DF SOILS AND MINERAL DEPOSITS.I/ DETERMINATION IN CLAYTON COUNTY, IOWA.* + IN THE MAGUOKETA SHALE AT VOLGA, CLEAVAGE IN PYRITE.*
CLINOHOLMQUISTITE.*
CLINOPYROXENES.*+ CELL DIMENSIONS OF SOME ALUMINOIJS NATURAL COAL MEASURES AT MUSWELLBROCK, NEW // IN THE GRETA COCINERITE DISCREDITED.*
CDEFFICIENTS BY COMPTON SCATTERING. // DF MASS ABSORPTITN COEXISTING CALCITES ANO DOLCMITES.* NGANESE CONTENT OF SOME COEXISTING K - FELDSPAR AND PLAGICCL// OF LEAD BETWEEN COEXISTING PHASES IN THE SYSTEM // DISTRIBUTION AMONG COLORADO. A CORRECTION.*+DERBY PEGMATITES, GUNNISON COUNTY, COLORADO. 4. THE PINON PEAK BRECCIA // FREMONT COIJNTY, colorado.* + In the contact aureole df the eloora stock, COLDRADO.*+ OF THE BROWN DERBY PEGMATITES, GUNNISON COUNTY, coloration in some fluorites.* ORIGIN OF COLUMBIA, CANADA.* + METAMORPHIC AUREOLE NEAR SALMO, BRITISH COMPLEX BASALT - MUGEARITE SILL IN PITON CES NEIGES VOLCA+A COMPLEX OF ULTRABASIC ALKALIC ROCKS AND CARB+THE CALEDONIAN COMPLEX, CALIFIRNIA.* + MINERALS IN THE GUADALUPE IGNEOUS COMPLEXES.* VERMICULITE - ALKYL AMMONIUM COMPTON SCATTERING. IMPRDVEMENTS // COEFFICIENTS BY COMPUTER PROGRAM FOR REFINING CELL PARAMETERS FROM WEISSEN+ CONCENTRATION ON THE COMPOSITION OF // OF PH AND SOLUTION CONCERNING THE CONVERSION OF STILBIT// EXPERIMENTAL STUDIES CONFERENCE ON THE SILICATE INDUSTRY.// OF THE EIGHTH CONFERENCE ON THE SILICATE INDUSTRY.II CONJUGATION LINES IN TERNARY SYSTEMS// CONSTANT VOLUME METASOMATIC PROCESS.// CONSTANT VOLUME METASOMATIC PROCESS.// CONTACT - METAMORPHIC AUIREOLE NEAR // OF THE SEVENTH from lacations of CONSIDERED AS A CONSIDEREO AS A CONTACT AUREOLE OF THE ELDORA STOCK,I/

AND OCCURRENCE IN A IN THE CENTACT AUREOLE** + - ORTHCCLASE TRANSITION WITHIN A CONTENT OF CHLORITES AND BIOTITES.* TERMINATION OF THE IRON CONTENT DF SOME COEXISTING CALCITES // AND MANGANESE CONTENT.* + NEVADA GRANITIC ROCKS AS A FUNCTION OF CALCIUM CONTENT.** OF BIOTITIC VERMICULITE TO DETERMINE VERMICULITE CONVERSION OF STILBITE TO WAIRARITE // CONCERNING THE COPPER - SILVER 'HALFBREEDS'•* OF COPPER IN NATIVE COPPER IN NATIVE COPPER - SILVER 'HALFBREEDS'. +DIFFUSION DF CORDIERITE - GARNET GNEISS IN GEORGIA.* AN QCCURRENCE OF CORDIERITE.* * AND VIBRATICNAL ABSORPTION SPECTRA IN CDRRECTION IN LOCATION.* ARTINITE FROM GABBS. NEVADA. A CORRECTION.* METEORITIC RUTILE. A CORRECTION. THE CRYSTAL STRUCTURE OF FLUELLITE. A CORRECTION.*+DERGY PEGMATITES, GUNNISON COUNTY, COLORADO. A CORRECTION.*\&TOURMALINE FROM MARIPOSA COUNTY, CALIFORNIA. A CORRELATION OF INFRARED ABSORPTION // DATA ON THE COUNTIES, KANSAS.* + LIMESTONES, WILSON AND MONTGOMERY COUPLING TENSORS OF AL2T IN KYANITE./I NUCLEAR QUADRUPOLE COURSE IN THREE DIMENSIONS:* CRYSTALLOGRAPHY A PROGRAMMED CREEK METEORITE.* * PRODUCED BY WEATHERING OF THE WOLF CREEK SULPHIDE LODE, WAKATIPU, QUEEN// IN THE MOKE CRESTMORE, CALIFORNIA.* + OF THE SYSTEM CAO-MGO-CO2-H2O AT CRISTOBALITE. A DISCUSSION. * THERMAL EXPANSION DF BETA -

N521206
N 521573
N 521549
A521322
A521322
B520931B
N521874
A5 20212
A521288
A520661
N521250
A521855
A521735
A520994
M521585C
A520042
N521216
N521214 A521493 N5 21530 A5 20805 A521139 N5 1578 A520817 A520117 A521110 A521003 A521669 A521475 B520302B A520436 A521706 A521493 N521570 N520896 A52 1438 B521257A B521256A A520797 N520545 N520549 4521669 A520117 A520087 N521573 N521530 4520832 N520294 A521438 A520352 A520352 N521240 A5 20380 N5 20889 N520924 N521576 N521578 N521577 N520877 N520890 A521630 B5 21911 A521190 N5 20524 A521341 N520541

CRISTOBALITE. REPLY.* * AND THERMAL EXPANSION OF BETA CRYSTAL - LINED VUGS IN THE MAQUOKETA SHALE AT +FLUORITF IN CRYSTAL CHEMISTRY OF THE BASIC MANGANESE ARSENATE MINERALS* CRYSTAL STRUCTURE AND CPTICAL PREPERTIES OF POLLUGITE.* CRYSTAL STRUCTURE OF A GLAUSERITE.* REFINEMENT OF THE CRYSTAL STRUCTURE OF A PYROXENE OF FORMIUL +REFINEMENT DF THE CRYSTAL STRUCTURE OF CHERALITE.* THE CRYSTAL STRUCTURE OF CHERALITE.* THE CRYSTAL STRUCTURE OF FLUELLITE. A CORRECTION.* THE CRYSTAL STRUCTURE OF HEULANDITE (CA,NA2)(AL2S17018).6H2+THE CRYSTAL STRUCTURE OF JOHANNSENITE.* REFINEMENT OF THE CRYSTAL STRUCTURE REFINEMENT.*+TECHNIQUE FOP USING TWINS IN CRYSTAL STRUCTURES OF FLINKITE, MNZ // MINERALS. I. THE CRYSTAL SYMMETRY AND PHYSICAL PROPERTIES.*
CRYSTAL TRANSFORMATIONS OF ARAGONITE// EFFECT IN SINGLE CRYSTALLIZATION OF MAFIC MINERALS IN THE + COMPOSITION AND CRYSTALLOCHEMICAL CLASSIFICATION OF MINERALQGICAL SPECIES.+ CRYSTALLOGRAPHY A PROGRAMMEO COURSE IN THREE DIMENSIONS ** CRYSTALS BY X - RAY DIFFRACTION // OF SMALL CRYSTALS.* CRYSTALS.* GROWTH OF BROMELLITE GIXEWTH OF SYNTHETIC CALCITE SINGLE MIXED - LAYER MINERALS AS ONE - DIMENSIONAL CUMMINGTONITE - GRUNERITE SERIES BY // DISTRIBUTION IN THE CURVES WITH A NEW HIGH TEMPERATURE // DIFFERENTIAL THERMAL CYMRIJE, IN THE FRANCISCAN FORMATICN, CALI+AN DCCIJRRENCE OF CZEC HOSLOVAKIA PART I THE BOHEMIAN // REGIONAL GEOLOGY OF DAWSONITE IN THE GRETA COAL MEASURES AT MUSWELLBRDOK, NEH + death valley california.* geolcgy of the sheba lead mine DEGREES ANO 550 DEGREES C.* + CACC3-MGCD3-FECO3 BETWEEN 350 DEGREES $\mathrm{C}_{*}{ }^{*}$ + CACO3-MGCO3-FECO3 BETHEEN 350 DEGREES AND 550 DEHYDROXMATION OF SERPENTINE.* PRESSURE DEPENDENCE OF DEHYDROXYLATION PROCESSES. It. TEMPE// AND MFCHANISM OF DEHYDROXYLATION PROCESSES, I. TEMPER// AND MECHANISM OF DEPENDENCE OF DEHYDROXYLATION OF // AND VAPOR PRESSURE DEPENDENCE OF KAOLINITE,*+I. TEMPERATURE AND VAPOR PRESSURE DERBY PEGMATITES, GUNNISON COUNTY, // MICAS OF THE BRDWN DERBY PEGMATITES, GUNNISON COUNTY, // MICAS OF THE BROWN DERIVED FROM THE STRUCTURE OF AIKINI// SULFOSALT STRUCTURES OES NEIGES VOLCANO, REUNION.* + - MUGEARITE SILL IN PITON DES SACHSISCHEN BERG - UND HUTTENHES// AUS DER GESCHICHTE descloizite, motiramite, and vanadinite from south west + determine vermiculite content.*+ of biotitic vermiculite to DEVELOPMENTS.* ON LEUCOPHOENICITES. I. A NOTE ON FORM DIAGENESIS ANO LOW - GRADE METAMORPHISM OF + HIGH - GRADE DIAGENESIS AND LOW - GRADE METAMORPH/I FUGACITES DURING DIAGRAM.* ZIRCON STABILITY AND THE ZROZ-SIO2 PHASE DICKITE IN LANSING GROUP (PENNSYLVANIANI LIMESTONES, WILSO* DIFFERENCES IN APPARENT INTERSTRATIFICATION OF AN ORGANO DIFFERENCES IN APPARENT INTERSTRATIFICATION OF AN ORGANO -+ differential thermal analysis of biotitic vermiculite to + DIFFERENTIAL THERMAL CURVES WITH // KAOLINITE MND QUARTZ DIFFRACTION ANALYSIS.* OF SMALL CRYSTALS BY $X$ - RAY DIFFRACTION DATA DF ALUMINOCOPIAPITE.* $X$ - RAY DIFFRACTION FUNCTION.* + OF THE TOTAL ONE - DIMENSIONAL DIFFRACTION STUDY,*+IN VARIOUS ORGANIC SOLVENTS. I. $x$ - RAY DIFFRACTION TABLES.* $x$ - RAY DIFFRAC TOMETER SAMPLES.* REDUCING PREFERRED ORIENTATION IN DIFFUSION OF COPPER IN NATIVE COPPER - SILVER 'HALFBREEDS'4 DIMENSIOMAL CRYSTALS.* MIXEO = LAYER MINERALS AS ONE DIMENSIONAL DIFFRACTION FUNCTION.

OF THE TOTAL ONE DIMENSIONS OF SOME ALUMINOUS NATURAL CLINOPYROX+UNIT - CELL DIMENSIONS OF TOPAZ AND THEIR SIGNIFII IN THE UNIT - CELL DIMENSIONS : CRYSTALLOGRAPHY A PROGRAMMED COURSE IN THREE DIOCTAHEDRAL CHLORITE.* STRUCTURAL ASPECTS DF DIOPSIDE - AKERMANITE - NEPHELINE.* THE SYSTEM DIOXIDE. AMD SULFUR FUGACITES DURING DIAGENE OXYGEN, CARBON DISCREDITED.

N520543 A521735 A521603 N521515 A521272 A520031 A520013 N5 21576 N520273 A520709 N52 1567 A521603 R521255A A520957 A520436 B520931B B521911 N520286 N521211 N520276 A520635 A521009 A520509 N5 21885 B520565A N521216 B520566A A520787 A520787 A521697 A 521697 A520201 A52 1697 A520201 A521110 N521578 N521874 A521475 B520301A A521087 N520294 N521226 A520843 A521153 N520880 N5 20890 A521386 A521725 N520294 0520509 N520286 N5 21220 A520661 A521386 8521590A N521243 4520352 4520635 A520661 A520042 N521890 8521911 $\$ 520673$ 4520227 1521153 N521214


FERROUS IRON CONTENYS OF SQME SECOND/f POTASSIUM AND FERROUS IRON IN PYRQXENES. + ASSIGNMENTS FIR THE SPECTRA OF FIELD USE, *+ FELDSPAR STAINING WETHOOS AND ADAPTATIONS FIR FINE GRAINED RECENT SEDIMEATS.*+SEPARATION OF DOLDMITE FROM FLINKITE, MN2 2+MN3+(OH)4(ASO4) AND CRYSTAL STRUCTURES OF FLUELLITE. A CORRECTION.* THE CRYSTAL STRUCTIIRE OF FLUORINE DETERMINATION IN MINERALS AND ROCKS.*
FLUORITE IN CRYSTAL - LINEC VIIGS IN THE MAQUDKETA SHALE AT+ FLUORITE.*

THERNCLIMMNESCENCE OF SYNTHETIC

ORIGIN OF COLORATION IN SJME
FLUORITES.*
FORM DEVELOPMENTS.*
ON LEUCOPHOENICITES. I. A NOTE ON FORMULA MIMII\{SI1.5AL0.5106.* + STRUCTURE OF A PYROXENE OF FORPULA OF SHATTUCKITE.* THE
FORTY - SEVENTH ANNIJAL MEETING OF THE + PRDCEECINGS OF THE FOSSIL SHELLS.* + FROM THE NATURAL THERMOLUMINESCENCE DF FRANCISCAN FORMATION, CALIFCRNIA.* GF CYMRITE, IN THE FREE BEUDANTITE.* UNNAMED SULFATE
FREMONT COUNTY, COLORADO. 4. THE // ARKANSAS RIVER AREA, FUGACITES DURING DIAGENESIS AND LCW// TIOXIDE, AND SULFIR FUGACITY.* ${ }^{*}$ AS A FUNCTIDN CF TEMPERATUPE AND DXYGEN FUNGTION DF CAICIUM CONTENT.* + NEVADA GRANITIC ROCKS AS A FUNCTION OF TEMPERATURE AND OXYGEN // 02 AS A FUNCTION.* + OF THE TOTAL ONE - DIMENSIONAL DIFFRACTION FUSION OF GRANITE.*

NATURAL
GABBS, NEVAOA. A CORRECTION IN LOCATION.* ARTINITE FROM GARNET GNEISS IN GEORGIA.* AN CCCURRENCE OF CORDIERITE GARNETS.* SYNTHETIC ZIRCONIUM AND TITANIUM GAYLUSSITE.* + APPLICATION TC INDEXING THE POWDER PATTERN OF GENTNERITE.*
GEOCHEMICAL AND PETROGRAPHIIC PROVINCES IN THE KARROO BASAL+ GECCHEMISCHE TABELLEN.*
 GEORGIA.* AN OCCURRENCE OF CORCIERITE - GARNET GNEISS IN GECTHERMDMETRY OF SPHALERITE IN THE // MICROANALYSIS AND GESCHICHTE DES SACHSISCHEN BERG - UND HUTTENWESENS. +AUS DER GHORT, CHHOTA UQAIPUR, INDIA. $\neq$ GIANT PSEUDOLEUCITES OF GIANT PSEHOOLEUCITES OF GHORI. CHHOTA UOAIPUR. INDIA.*
GLASS.*
MEMORIAL OF JEWELL JEANNETTE
GLASSES.* METALLIC SPMERULES IN IMPACTITE AND TEKTITE
GLASSES.* + OF SOME SECONDARILY HYDRATED NATURAL SILICIC GLAUBERITE * REFINEMENT OF THE CRYSTAL STRUCTURE OF A GLAUCONITE.* $X$ - RAY AND CHEMICAL STUDY OF WEATHERING GNEISS IN GEORGIA。* AN OCCURREACE DF CORDIERITE - GARNET GOLD HILL, UTAH. ${ }^{\text {G }}$

AUSTINITE FROM GONNARDITE IN THE AMYGDALES OF ALTER// PHILLIPSITE, ANO GRADE DIAGENESIS AND LOW - GRADE NETAMORPHISM OF + HIGH GRADE METAMORPHISM OF ILLITE IN THE // DIAGENESIS AND LOW GRADE METAMORPHISM OF LATE PRECAMBRI// DIAGENESIS AND LOW GRAINED RECENT SEDIMENTS. + +SEPARATION DF DOLOMITE FROM FINE GRAINS. $\dagger$ - REAGENT AS AIDS IN ISOLATING PHOSPHATE MINERAL GRANITE.
GRANITIC ROCKS AS A FUNCTION OF SOME SIERRA NEYADA GRANITIC ROCKS.* FE/(FEHMGI RATID IN BIOTITE FROM GEORGIA GRANITIC ROCKS.* + HALOS IN BIDTITES OF SOME SIERRA NEVADA GRETA COAL MEASURES AT MUSWELLBROCK, NEH + DAWSONITE IN THE GROUNDMASS DF A PERALKALINF TRACHYTE.* AENIGMATITE FROM THE GROUTITE.* ANT IMONIAN
GROWTH OF BERYL FRCM MOLTEN SALT SCLUTICNS.*
GROWTH OF BROMELLITE CRYSTALS.*
GROWTH OF SYNTHETIC CALCITE SINGLE CRYSTALS.*
GROWTH TWINNING。 KINETIC CONSIDERATIONS IN THE GENESIS OF GRUNERITE AND OTHER PHASES IN THE SYSTEM SIO2N+SYNTHFSIS OF GRUNERITE SERIES BY MOSSBAUER SPECTR// THE CUMMINGTONITE GUADALUPE IGNEOUS COMPLEX, CALIFORNI// MINERALS IN THE GUATEMALA. ${ }^{*} \quad+$ AND JADEITE FROM THE MOTAGUA FAULT ZONE, GUNNISON COUNTY, COLORADO. A CORRECT// DERBY PEGMATITES,

N5 20280 N 521508 N5 21575 N521563 A521603 N5 21576 A5 21503 A521735 A520371 4521003 N521226 A520031 A5 20782 P520592 A5 21297 N5 21885 M5 215858 A520817 A521153 A521139 A520832 A521139 A520661 A5 21806 N5 20889 N5 21240 A5 20773 N521570 M520559B A 521451 B521912B N5 20902 N5 21240 N5 20524 B520301A N5 21904 N521904 P5 20584 A520721 N5 20280 A5 21272 A521129 N5 21240 N5 21224 A5 21785 A520843 A520843
A521153
N521563
4520263
4521806
A5 20832
N520902
N5 21901
N521216 N5 21895 N520858 N5 21554 N521211 N5 20276 A 520001 A521681 A521009 A5 20436 N5 20908 N5 21578

GUNNISON COUNTY, COLORADO.* OF THE BROWN DERBY PEGMATITES, GYPSUM - ANHYORITE EQUILIBRIUM AT ONE ATMOSPHERE PRESSU + THE H - BONDED OH IN SYNTHETIC ALPHA - Q/I OF THE VARIATION OF HALFBREEDS * ${ }^{\circ}+$ OF COPPER IN NATIVE COPPER - SILVER HALLOYSITE, UPPER HUNTER VALLEY, // AND GENESIS OF HALOS IN BIOTITES OF SOME SIERRA // NUCLEI OF PLEOCHROIC HEULANDITE (GA,NA2)(AL2SI7O18). 6 H20.1/ CRYSTAL STRUCTURE OF HIGH $=$ I ALUMINA ALLOPHANE AS A WEATHERING PRODUCT OF PLAGIO* HIGH $\approx$ GRADE DIAGENESIS ANO LOW - GRADE METAMORPHISH OF * HIGH ALBITE SOLID SOLUTION SERIES. BITE AND THE SANIDINE HIGH ALBITE.*

THERMAL EXPANSION OF LON ANO HIGH TEMPERATURE CELL* * + THERMAL CURVES WITH A NEW HILL, UTAH.* AUSTINITE FROM GOLD HORNESITE.*
HUNTER VALLEY, NEW SOUTH WALES, // OF HALLOYSITE, UPPER HUNTITE FROM A CARBONATE - EVAPQRITE ENVIRONMENT.*
HUTTENWESENS.* + DER GESCHICHTE CES SACHSISCHEN BERG - UND HYDRATED NATURAL SILICIC GLASSES. ${ }^{\text {H O OF SOME SECONOARILY }}$ HYORAULIC BINDERS** SILICATE SCIENCE VOL $V$ CERAMICS AND HYOROCARBON MINERAL FROM CALIFORNIA.* PENDLETONITE, A NEW HYDROCERUSSITE.*
HYDROGARNETS.*
NEW SYNTHETIC HYDROKASSITE.*
HYOROTALCITE, \& + - ALUMINUM COUBLE HYDROXIDE, MANASSEITE AND HYDROTHERMAL SILICATE SYSTENS.* SILICATE SCIENCE VIL IV HYDROUS CALCIUM SILICATE, FROM MENDO// ROSENHAHNITE, A NEW HYDROUS MAGNESIUM HYDROXIDE - FERRIC OXYCHLO O IOWAITE, A NEW HYDROXIDE - FERRIC OXYCHLORIDE FRCM // HYOROUS MAGNESIUM HYOROXIDE AND ITS RELATIONSHIP TO // - ALUMINUM CARBONATE HYDRDXIDE, MANASSEITE AND HYDROTALCI// - ALUMINUM DOUBLE H2O-COZ MIXTURES AND OCCURRENCE IN // STABILITY IN ICELAND** OF THINGMULI, A TERTIARY VOLCANC IN EASTERN IDENTIFICATION OF SMALL CRYSTALS BY $X-+A$ PROCEDURE FOR THE IGNEOUS COMPLEX. CALIFORNIA.* + MINERALS IN THE GUADALUPE IGNEOUS ROCKS.* + DISTRIBUTION PATTERNS IN SOME PORPHYRITIC ILLITE IN THE PRECAMBRIAN BELT SERIEI/ METAMORPHISM OF IMPACTITE AND TEKTITE GLASSES.* METALLIC SPHERULES IN IMPRDVEMENTS AND EXTENSIONS OF THE // COMPTON SCATTERING. INDEXING THE POWDER PATTERN OF GAYLU// ITS APPLICATION TO INDIA.* GIANT PSEUDOLEUCITES OF GHORI, CHHOTA UDAIPUR, INDIUM.*
INOUSTRIAL MINERAL DEPOSITS.*
METALLIC AND
INDUSTRY. * OF THE EIGHTH CONFERENCE ON THE SILICATE INDUSTRY.* + OF THE SEVENTH CONFERENCE ON THE SILICATE INFRARED (500-30 CM-1) SPECTRA OF SOME CARBONATE MINERA + FAR INFRARED ABSORPTION ANALYSIS OF MAGNETITE.*
$A N$ INFRARED ABSORPTION SPECTRA AND IN THE CORRELATION OF INFRARED AND $X$ - RAY STUDY ** \& FROM SOUTH WEST AFRICA. AN INFRARED SPECTRA OF SOME SYNTHETIC TALCS.*
INFRARED SPECTROSCOPY,* + EXCHANGE CAPACITY OF CLAYS BY INFRARED STUDIES OF THE VARIATION OF H - BONDED OH IN SYNT+ INTERPRETATION OF THE ELECTRONIC SPECTRA OF IRON IN PYROXE+ INTERSTRATIFICATION OF AN ORGANO - $/ 1$ IN APPARENT INTERSTRATIFICATION OF AN ORGANO - $/ 1$ IN APPARENT INTERSTRATIFIEO ALUMINIAN MONTMORILL// II. A RANDOMLY INTERSTRATIFIED CLAY SYSTEMS. CALCULATION OF THE TOTAL ONE + INVERTED FROM ARAGONITE.* BIAXIAL CALCITE IOWA.* + - FERRIC OXYCHLORICE FROM THE PRECAMBRIAN OF IDWA.* + IN THE MAQUOKETA SHALE AT VOLGA, CLAYTCN COUNTY, IOWAITE, A NEW HYDROUS MAGNESIUM HYDROXIDE - FERRIC OXYCHL+ IRARSITE.*
IRON - TITANIUM OXIOE.* UNNAMEO IRON ARSENITE.* UNNAMED CALCIUM IRON CONTENT OF CHLORITES AND BIOTIT// DETERMINATION OF THE IRON CONTENTS OF SOME SECONDARILY // AND FERROUS IRON IN PYROXENES.* + OF THE ELECTRONIC SPECTRA DF

A521110
A520171
A520149
A 520352
1521795
N521901
N5 20273
4520254
A520843
A520055
4520389
A520509
N5 21224
H521588B
A521795
4521332
B520301A
N520280
B520302A
A520611
M520563A
A521105
M520599D
4521036
B521255B
A520336
A521261
A521261
A521036
4521036
A521669
A521815
N5 20286
A520436
N520529
A5 20843
A520721
A521493
N521570
N521904
M520299A
B520565B
B521257A
B521256A
A520137
N521198
N520877
A52. 1067
4521649
N521250
A520149
A521278
A521386
A521725
A520212
A520661
N521527
4521261
$\Delta 521735$
A521261
M521580B
M521580C
M520300B
N521573
N5 20280
A521278

IRON IN PYROXENES.*+ ASSIGNMENTS FOR THE SPECTRA OF FERROUS
IRON IN THE ROCK - FORMING SILICATES// SPECTRA OF
IRON IN THE ROCK - FORMING SILICATES// SPECTRA OF
ISOLATING PHOSPHATE MINERAL GRAINS. *DATE REAGENT AS AIDS IN
I SOTOPE AND CATION EXCHANGE CHEMISTRY OF FELDSPA+THE OXYGEN JADEITE FROM THE MOTAGUA FAULT ZONE, GUATEMAL+ECLOGITES AND JAPAN.* MAGNESIAN KUTNAHORITE FROM RYUJIMA MINE, JAPAN॰ * OF ALTERED BASALT FROM MAZE, NIIGATA PREFECTURE, JAPAN, WITH SOME EXPERIMENTAL STUCIE// MIE PREFECTURE, JEANNETTE GLASS.* MEMORIAL OF JEWELL JEFFRIES.*
JEWELL JEANNETTE GLASS.*
JOAQULNITE GROUP.*
MEMORIAL OF CHARLES DAVIS
MEMORIAL OF JOHANASENITE,* REFINEMENT OF THE CRYSTAL STRUCTURE OF KANSAS** LIMESTONES, WILSON AND MONTGOMERY COUNT IES, KAOLINITE AND QUARTZ OIFFERENTIAL THERMAL + EVALUATION OF KAOLINITE FROM MONTMORILLDNITE AT // FORMATION OF KAOLINITE, *+I. TEMPERATURE AND VAPOR PRESSURE DEPENDENCE OF KAOLINITE, QUARTZ AND DOLOMITE.*+FORMATION OF SAPONITE FROM KARELIA.* + CARBONATITES OF THE KOLA PENINSULA AND NORTHERN KARROO BASALTS OF SOUTHERN AFRICA.* RAPHIC PROVINCES IN THE KASSITE.*
KENTROLITE AND MELANOTEKITE. TERNARY PHASEYNTHE H NEW DATA ON KINETIC CONSIDERATIONS IN THE GENESIS OF GRCWTH TWINNING.* KINETICS AND MECHANISM OF CEHYDROXYLATION PROCESSES, 1. + KINETICS AND MECHANISM OF CEHYOROXYLATION PROCESSES. II. + KLOCKMANAS LEHRBUCH OER MINERALOGIE.*
KOLA PENINSULA AND NORTHERN KARELIA.// CARBONATITES OF THE KOTULSKITE.*
KUTNAHQRITE FRCM RYUJIMA MINE, JAPAN.* MAGNESIAN KYANITE.* * NUCLEAR QUADRUPOLE CCUPLING TENSORS OF ALL 27 IN LANCHEITE.* STRONTIUM THOMSONITE.* LANSING GROUP \{PENNSYLVANIANI LIMESTONES, WILSON+DICKITE IN LARSENITE, BARYSILITE AND RELATIONS // OF LEAD SILICATES. LASER MICROPROBE.* + ANALYSIS OF MINERALS WITH THE LATE PRECAMBRIAN SUBGRAYWACKES FRCM // METAMORPHISM DF LATTICE PARAMETERS, ANC THERMAL EXPANSION OF + STABILITY, LATTICE PARAMETERS, AND THERMAL EXPANSION OF + STABILITY, LAYER MINERALS AS ONE - DIMENSIONAL CRYSTALS.* MIXED LAYER ORTHO - SERPENTINE.* $X$ - RAY STUDY OF SIX LAYER STRUCTURES.* CHLORITE POLYTYPISM. IV. REGULAR TWO LEAD - ANTIMONY SULFIDE.* UNAMED LEAD BETWEEN COEXISTING K - FELDSPAR// THE OISTRIBUTION OF LEAD MINE DEATH VALLFY CALIFORNIA.* GEOLGGY OF THE SHEBA LEAD MINERAL.* UNNAMED PALLADIUM - BISMUTH LEAD SILICATES. LARSENITE, BARYSILIT/I PHASEYNTHESES OF LECTURES ON GECLOGY.*
LEHRBUCH OER MINERALOGIE.*
klockmanns
LEUCOPHOENICITES. I. A NOTE ON FORM DEVELCDMENTS.* ON LIMESTONES, HILSON AND MONTGOMERY // (PENNSYLVANIAN) LINE FOR SILICATES.*+CHEMICAL EFFECTS ON THE SIK BETA X-RAY LINED VUGS IN THE MAOUOKETA SHALE // IN GRYSTAL LINES IN TERNARY SYSTEMS.* + FRON LOCATIONS DF GONJUGATION LITHIOPHORITE FRQM CHARLOTTESVILLE, VIRGINIA.*
LOCATION.* ARTINITE FROM GABBS, NEVADA. A CORRECTION IN LOCATIONS OF CONJUGATION LINES IN // OF SILICATES FROM LODE, WAKATIPU, QUEENSTOWN.* + IN THE MOKE CREEK SUlphide LONSDALEITE.*
MACALLISTERITE, 2MG0.68203.15H2O. FROM SALTA, ARGENTINA.* MACKINAWITE FROM SOUTH AFRICA.*
MACROPROBE OF+DF MINERALS IN THIN - SECTION WITH THE $x$ - RAY MAFIC MINERALS IN THE GUADALUPE // CRYSTALLIZATION OF MAGNESIAN KUTNAHORITE FROM RYIJJIMA MINE, JAPAN.*
MAGNESIUM - ALUMINUM CARBONATE HYCRCII OF A SYNTHETIC
MAGNESIUM - ALUMINUM DOUBLE HYDROXID/I ITS RELATIONSHIP TO
MAGNESIUM HYOROXIDE - FERRIC OXYCHLO/I A NEW HYDROUS

N521508
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H520555
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MAGNETIC SUSCEPTIBILITIES OF SOME FRIOCTAHEDRAL MICAS．HMASS MAGNETITE．＊AN INFRARED ABSORPTION ANALYSIS DF MAGNODRAYITE＊＊
MANASSEITE AND HYDROTALCITE．＊+ －ALUMINUM DOUBLE HYDRDXIDE， MANGANFSE ARSENATE MINERALS．I．THE／／OF THE BASIC MANGANESE CONTENT OF SOME CCEXISTING CALCITES＋STRONTIUM AND MAOUDKETA SHALE AT VOLGA，CLAYTON／／－LINED VUGS IN THE MARGARITE GROUP AND RELATED BRITTLE／／MEMBER OF THE MARIPOSA COUNTY，CALIFGRNIA．A CORRE／／TOURMALINE FROM MASKELYNITE．＊ NATURAL TERRESTRIAL MASS ABSORPTION COEFFICIENTS BY CCMPTON SCATT＋ESTIMATION DE MASS MAGNETIC SUSCEPTIBILITIES OF SOME TRIOCTAMEDRAL MICASH MASSIF。＊＋GEOLOGY OF CZECHOSLCVAKIA PART I THE BMHEMIAN MAX H．HEY．PRESENTATION OF THE ROEBLING MEDAL TO MAZE，NIIGATA PREFECTURE，JAPAN．＊OF ALTERED BASALT FRTMM MCKELVEYITE．＊ THE MORPHOLOGY OF
MCKINSTRYITE．＊
MCKINSTRYITE．＊
MEASURES AT MUSWELLBROOK，NEW SOUFH／／IN THE GRETA COAL MECHANISM OF DEHYDROXYLATICN PROCESSES $1 *+$ KINETICS AND MECHANISM OF DEHYOROXYLATICA PROCESSES．II．＋KINFTICS AND MECHANISMS＊＊＋MINERAL SHOWING DIVERSE STRAIN－RELIEF MEDAL TO MAX H．HEY．＊ PRESENTATION OF THE ROEBLING

## MEDAL．＊

 ACCEPTANCE OF THE ROEBLING MEETING OF THE MINERALOGICAL SOCIETY／／－SEVENTH ANNIJAL MELANOTEKITE．TERNARY PHASEYNTHESES／／ON KENTROLITE AND MEMEER OF THE MARGARITE GROUP AND／／A TRIOCTAHEDRAL MEMBERS OF THE BRAUNITE GRDUP．＊DISTINCTION EETWEEN TWO MEMORIAL OF CHARLES DAVIS JEFFRIES．＊MEMORIAL OF JEWELL JEANNETTE GLASS．＊
MEMORY EFFECT IN SINGLE－CRYSTAL TRANSFORMATIONS OF ARAGO＋ MENDOCINO COUNTY，CALIFORNIA，$\#$ CALCIUM SILICATE，FROM MERENSKYITE．＊
META－ANKOLEITE。＊
METALLIC AND INDUSTRIAL MINERAL DEPOSITS．＊
METALLIC SPHERULES IN IMPACTITE ANO TEKTITE GLASSES．＊
METAMORPHIC AUREOLE NEAR SALMO，／／IN A CONTACT－ METAMORPHISM OF ILLITE IN THE PRECAM／／／AND LOW－GRADE METAMORPHISM OF LATE PRECAMBRIAN／／AND LOH－GRADE METASOMATIC PROCESS．A DISCUSSION．$\#$ ED AS A CONSTANT VOLUME METASOMATIC PROCESS．REPLY．AS A CONSTANT VOLUME METEORITE＊＊＋PROCUCED BY WEATHERING OF THE WOLF GREEK METEORITIC RUTILE．A CORRECTION．＊
MGO－＇FEO＇－SIO2．＊＋OF OLIVINES AND PYROXENES IN THE SYSTEM MGO－FED－FE203－SIO2 AS A FUNCTION CF／／PHASES IN THE SYSTEM MICAS OF THE BROWN DERBY PEGMATITES，GUNNISON COUNTY，COLO＋ MICAS OF THE BROWN DERBY PEGMATITES，GUNNISON COUNTY，COLO＋ MICAS．象 THE TRIOCTAHEDRAL BRITTLE MICAS．$\quad$＋MAGNETIC SUSCEPTIBILITIES OF SOME TRIOCTAHEDRAL MICAS．＊＋MEMBER OF THE MARGARITE GROUP AND RELATED BRITTLE MICRO METHOD FOR DETERMINATION OF CATION EXCHANGE CAPACIT＋A MICROANALYSIS AND GEOTHERMOMETRY OF SPHALERI FELECTRON PROBE MICROANALYSIS OF SPHALERITE．＊ELECTRON PROBE MICROCLINE－LOW ALBITF AND THE／／PARAMETERS DF THE MICROCLINE－LOW ALBITE SOLID SOLUTI／／IN ORVILLE＇S MICROCLINE－ORTHOCLASE TRANSFORMMTION IN THE CONTACT＋THE MICROCLINE－ORTHOCLASE TRANSITION WITHIN A CONTACT＋THE MICROPROBE．＊＊ANALYSIS OF MINERALS WITH THE LASER MICROSCOPY STUOY。＊＋VARIOUS ORGANIC SOLVENTS．II．ELECTRON MICROSPECTROCHEMICAL ANALYSIS OF MINERALS WITH THE LASER + MIE PREFECTURE，JAPAN，WITH SOME／／FROM ONIGAJO， MIMII（SII．5ALO．5）06．＊＋STRUCTURE OF A PYROXENE OF FORMULA HINE DEATH VALLEY CALIFORNIA．＊GEOLOGY OF THE SHEBA LEAD MINE，JAPAN．＊ MAGNESIAN KUTNAHORITE FROM RYUJIMA MINERALIENSAMMLER．＊ DER MINERALOGICAL SOCIETY OF AMERICA AWARD＋ACCEPTANCE OF THE

A521643
N521198
M520562B
A521036
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A5 20244
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A 521153
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A520031
B520566A
4521751
B521258A
P520580

MINERALOGICAL SOCIETY OF AMERICA AWARO \&PRESENTATION OF THE MINERALOGICAL SOCIETY OF AMERICA.* ANNUAL MEETING DF THE MINERALOGICAL SPECIES. * +CRYSTALLOCHEMICAL CLASSIFICATION OF MINERALOGIE**
MINERALOGISCHE TABELLEN 4THED.*
MINES AND MINERAL RESOURCES OF TRINITY COUNTY CALIFORNIA.* MIXED - LAYER MINERALS AS ONE - DIMENSIONAL CRYSTALS**
MN2 2 +MN3 +(OH)4(ASO4) AND RETZIAN, STRUCTURES OF FLINKITE,
 $M N 3+(0 H) 4(A 5 O 4)$ AND RETZIAN, MN3 OF FLINKITE, MN2 2+ MOKE CREEK SULPHIDE LODE, WAKATIPU, // OF SPHALERITE IN THE MOLTEN SALT SOLUTIONS.* GROWTH OF BERVL FROM MOLYBDATE REAGENT AS AIDS IN ISOLATI// AND A STRYCHNINE MONTGOMERY COUNTIES, KANSAS.* LIMESTCNES, WILSON AND MDNTMORILLONITE AT LOW TEMPERATURES.// OF KAOLINITE FROM MONTMORILLDNITF DISPERSED IN VARICUS//
MONTMORILLONITE DISPERSED IN VARICUS// OF AN ORGAND OF AN DRGAND MONTMORILLONOIO.** II. A RANDOMLY INTERSTRATIFIED ALIJMINI AN MORPHOLOGY OF MCKELVEYITE.*

THE
MOSSBAUER SPECTRA.*+THE CUMMINGTDNITE - GRUNERITE SERIES BY MCTAGUA FAULT ZONE, GUATEMALA, * AND JADEITE FROM THE MOTTRAMITE, $厶 N D ~ V A N A D I N I T E ~ F R Q M ~ S C U T H ~ W E S T ~+~ D E S C L O I Z I T E, ~$ MUGEARITE SILL IN PITON DES NEIGES $/ /$ A COMPLEX BASALT MUSCOVITE AND VANADIUM TOURMALINE FROM + BARIUM - VANADIUM MUSWELLBROOK, NEW SOUTH WALES;*+ THE GRETA COAL MEASURES AT MYRMEKITE IN CHARNOCKITE FROM SOUTHWEST NIGERIA A REPLY。\# MYRMEKITE IN CHARNOCKITE FRCM SOUTHWEST NIGERIA. A OISCUSS* NATIVE COPPER - SILVER 'HALFBREEOS' / I OF COPPER IN NATURAL CLINOPYROXENES. + + CELL DIMENSIONS OF SOME ALIJMI NOIIS NATURAL FUSION OF GRANITE.*
NATURAL SILICA MINERALS.*+OF SIO2-X AND ITS RELATION TO THE NATURAL SILICIC GLASSES.* + OF SOME SECONDARILY HYORATED NATURAL TERRESTRIAL MASKELYNITE**
NATURAL THERMOLUMINESCENCE CF FOSSIL// DOSIMETRY FROM THE NA2)(AL2SI7O18).6H20.*+CRYSTAL STRUCTURE OF HEULANDITE (CA, NA20. 38203.4 H 2 O , A NEW BORATE FROM ARGENTINA.* AMEGHINITE, NA6MGB24040.22H20, A NEW BCRATE FROM ARGENTINA. +RIVADAVITE, NEBENMETALLE.*
NEIGES VOLCANO, REUNIDN.* + - MUGEARITE SILL IN PITON DES NEPHELINE.* THE SYSTEM DIOPSIDE - AKERMANITE NEVADA GRANITIC ROCKS AS A FUNCTICN // IN SIME SIERRA NEVADA GRANITIC ROCKS.* + HALOS IN BIOTITES DF SIME SIERRA NEVADA TEST SITE, NEVADA.* + OF ZEOLITIZED TUFFS FROM THE NEVADA. A CORRECTION IN LOCATION.* ARTINITE FROM GABBS, NEVADA. + - OF ZEDLITIZED TUFFS FROM THE NEVADA TEST SITE, NEW BORATE FROM ARGENTINA. $=$ NAGMGB24040.22H2O, A NEW BORATE FROM ARGENTINA. AMEGHINITE, NA20.3B203.4H2O, A NEW DATA ON KENTROLITE AND MELANOTEKITE. TERNARY PHASEYNTH+ NEW DATA ON NIGERITE.*
NEW DATA ON TRIDYMITE.*
NEW HIGH TEMPERATURE CELL. $\ddagger$ THERMAL CURVES WITH A NEW HYDROCARBON MINERAL FROM CALIFORNIA** PENOLETONITE, A NEW HYORDUS CALCIUM SILICATE, FROM MENOOCIN+ROSENHAHNITE, A NEW HYDROUS MAGNESIUM HYDROXIDE - FERRIC OXYCHLO+IONAITE, A
NEW MINERAL NAMES.*
NEH MINERAL.*
ERRATA TO INDEX OF
SHITZERITE, (MN, FEI3(PO4)2.4H2O, A
NEH OCCURRENCE AND OATA OF NOLANITE.*
NEH OCCURRENCE OF FERRIERITE.*
A
NEW OCCURRENCE OF NORSETHITE BAMG(CO3)2.*
NEW OCCURRENCE OF ROEDDERITE AND ITS BEARING ON OSUMILITE $+A$
NEW POLYMORPH OF YTTRIUM TANTALATE.*HETIC FERGUSONITE AND A NEH SOUTH WALES** + THE GRETA COAL MEASURES AT MUSWELLBROOK, NEW SOUTH WALES, AUSTRALIA**

UPPER HUNTER VALLEY,
NEW SYNTHETIC HYDROGARNETS.*
NIGERIA. A DISCUSSION.* + IN CHARNOCKITE FROM SOUTHWEST NIGERIA. A REPLY. MYRMEKITE IN CHARNOCKITE FROM SOUTHWEST

P520579
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N5 21536
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4521795
A521105
N5 20918
N5 20920

NIGERITE**
NEW DATA ON
NIIGATA PREFECTIJRE, JAPAN.* + OF ALTERED BASALT FROM MAZE, NIMINGERITE.*
NISSONITE.*
NITRATE.* + OF ARAGONITE - TYPE TC CALCITE - TYPE POTASSIIMM NOLANITE,* NEW DCCURRENCE AND DATA OF NORSETHITE BAMGICO3I2.* A NEW OCCURRENCE OF NORTHERN KARELIA.* + CARBONATITES OF THE KOLA DENINSULA ANO NORTHERN SIBERIA.* CALZIRTITE FROM CARBONATITES OF NORTHERN IUTAH.* + OF LATE PRECAMBRIAN SUBGRAYWACKES FROM NOTE ON FORM OEVELOPMENTS.* ON LEUCOPHOENICITES. I. A NOTE ON THE SYSTEM FEG-FE2O3-SIO2-H2O.*
NUCLEAR QUADRUPOLE CCUPLING TENSORS OF AL 27 IN KYANITE. HTHE nUCLEI CF PLEOCHROIC halos in biotites of some sierra nevat OCCURRENCE AND OATA OF NOLANITE.* NEW OCCURRENCE AND GENESIS OF HALLOYSITE, UPPER HUNTER VALLEY.+ OCCURRENCE IN A CONTACT - METAMORPHI// HZO-CO2 MIXTURES AND OCCURRENCE OF CORDIERITE - GARNET GNEISS IN GEORGIA.* AN OCCURRENCE OF CYMRITE, IN THE FRANCISCAN FORMATION, CALI I AN OCCURRENCE OF FERRIERITE.* A NEW OCCURRENCE OF NORSETHITE BAMGICO3I2.* A NEW OCCURRENCE OF ROEDDERITE ANC ITS REARING ON OSUMILITE+A NEW DFFRETITE.*

ERIONITE AND
OH ABSORPTION BANOS OF CHLORITE.* BAND NEAR 1000 CM-1 AND OH IN SYNTHETIC ALPHA - QUARTZ* VARIATION DF H - BONOED OH)2.* + ALUMINUM IN PREHNITE,A2(AL,FE+3)(SI3ALOIO) OHI4(ASO4) AND RETZIAN, MN3 2+Y3+(OH FLINKITE, MN2 2+MN3+1 (OH)4(ASO4).*+ MN2 2+MN3+(OH)4(ASO4) ANQ RET2IAN, MN3 2+Y3+1 OLIVINE IN ENSTATITE CHONDRITES.*
OLIVINES AND PYROXENES IN THE SYSTEM// PROPERTIES OF ONE - DIMENSIONAL CRYSTALS.* MIXED - LAYER MINERALS AS ONE - DIMENSIONAL DIFFRACTION FUNCTI// OF THE TOTAL ONE ATMOSPHERE PRESSURE.*+GYPSUM - ANHYDRITE EQUILIBRIUM AT ONIGAJO, MIE PREFECTURE, JAPAN, // SODIAN STILBITE FROM OPTICAL ABSORPTION SPECTRA CF IRON IN THE ROCK - FDRMING + OPTICAL ABSORPTION SPECTRA CF IRON IN THE ROCK - FORMING + GPTICAL ANISOTROPY IN PYRITE.*
OPTICAL PROPERTIES OF POLLUCITE.* CRYSTAL STRUCTURE AND OPTICAL STUDY.* THE ALEXANDRITE EFFECT. AN ORDERING OF TETRAHEORAL ALUMINUM IN PREHNITE,AZIAL,FE+3)(S+ ORGANIC DYES AND A STRYCHNINE - MOLYBDATE REAGENT AS AIDS + ORGANIC SOLVENTS: I. X - RAY DIFFRAC// DISPERSED IN VARIDUS ORGANIC SOLVENTS. II. ELECTRON HICRO// DISPERSED IN VARIOUS ORGANO - MONTMORILLONITE DISPERSEO // OF AN ORGANO - MONTMORILLONITE OISPERSEC // OF AN ORIENTATION IN DIFFRACTOMETER SAMPLES.* REDUCING PREFERRED ORIGIN OF CQLORATION IN SCME FLUORITES.*
OROVILLE QUADRANGLE CALIFORNIA.* GEOLOGY OF THE ORTHO - SERPENTINE.* X - RAY STUDY OF SIX - LAYER orthoclase transformation in the contact + the microcline ORTHOCLASE TRANSITIDN wITHIN A CONTACT * THE MICROCLINE ORVILLE'S MICROCLINE - LOW ALBITE // DETERMINATIONS IN OSUMILITE - TYPE minerals.* * ROEDOERITE AND ITS BEARING ON OTHER PHASES IN THE SYSTEM SIO2NAOH-/I OF GRUNERITE AND OTHER RIIHO4-TYPE TUNGSTATES.** SCLUTIONS OF SCHEELITE WITH OXIDE.

UNNAMED IRON - TITANIUM OXYCHLORIDE FROM THE PRECAMBRIAN OF // HYDROXIDE - FERRIC OXYGEN FUGACITY.* + AS A FUNCTION DF TEMPERATURE AND OXYGEN ISOTOPE AND CATION EXCHANGE CHEMISTRY OF FELOSPA TTHE OXYGEN, CARBON DIOXIDE, AND SULFUR FUGACITES OURING DIAGEN* 06.* + STRUCTURE OF A PYRDXENE OF FORMULA MIMIIISII.5AL0.51

UNNAMED

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M5 20925
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B521590B M521588A
N521570
N520529

PBO－FE2O3－SIO2．＊RELATED PHASES．＊RELATIONS IN THE SYSTEM PEAK BRECCIA PIPES．＊＋FREMONT COUNTY，COLORADO．4．THE PINON PEARCEITE AND POLYBASITE SERIES．＊ THE PEGMATITES，GUNNISON COUNTY，COLORAD／／OF THE BROWN DERBY PEGMATITES，GUNNISON COUNTY，COLORAD／／OF THE BROWN DERBY PENDLETONITE，A NEW HYCROCARBON MINERAL FROM CALIFORNIA．＊ PENINSULA AND NORTHERN KARELIA．＊＋CARBONATITES OF THE KOLA PENNSYLVANIANI LIMESTONES，HILSON／／IN LANSING GROUP（ PERALKALINE TRACHYTE．＊＋AENIGMATITE FROM THE GROUNDMASS OF A PERRIERITE．事 A STUDY OF CHEVKINITE AND PERRYITE．
PETROGRAPHIC PROVINCES IN THE KARROO BASALT＋GEOCHEMICAL AND PETROLQGY OF THE SYSTEM CAO－MGO－CC2－H2O AT＋MINERALOGY ANO PH AND SOLIJTION CONCENTRATION ON THE COMPOSITION＋EFFECT OF PHARMACOSIDERITE．＊ BARIUM－ PHASEYNTHESES OF LEAD SILICATES．／／TERNARY PHENOCRYST DISTRIBUTION PATTERNS IN／／OF SYNNEUSIS ON PHILLIPSITE．ANO GONNARDITE IN THE AMVGDALES OF＋ERIONITE， PHOSPHATE MINERAL GRAINS．＊+ REAGENT．AS AIDS IN ISOLATING PHOTOGRAPHS AND ITS APPLICATION TO／／FROM WEISSENBERG PHYSICAL PROPERTIES．＊CRYSTAL SYMMETRY AND PINON PEAK BRECCIA PIPES．+ FFREMONT COUNTY，COLORADO．4．THE PIPES，＊＋FREMONT COUNTY，COLDRADO．4．THE PIMON PEAK BRECCIA PITON DES NEIGES VOLCANO，REUNION．＊ALT－MUGEARITE SILL IN PLAGIOCLASE．＊＋OF LEAO BETWEEN CGEXISTING K－FELDSPAR AND PLAGIOCLASE．F＋ALUMINA ALLOPHANE AS A WEATHERING PRODUCT OF PLEQCHROIC HALOS IN BIOTITES OF SCME SIERRA NEVAD＋NUCLEI OF PLUMBINACRITE＊
POLLUCITE．CRYSTAL STRUCTURE AND OPTICAL PROPERTIES OF POLYBASITE SERIES．＊
POLYMORPH OF YTTRIUM TANTALATE．＊ POLYTYPISM IN SILICON CARBICE．＊

THE PEARCEITE ANO A STUDY OF POLYTYPISM．IV．REGULAR THO－LAYER STRUCTURES＊＊CHLORITE PORPHYRITIC IGNEOUS ROCRS．＊+ DISTRIBUTION PATTERNS IN SUME POSNJAKITE．＊
POSSIBLE UNDISCOVERED MINERAL。＊BABEF4，A POTASSIUM AND FERROUS IRON CONTENTS OF SOME SECONOA＋SOOIUM， POTASSIUM NITRATE。＊＋OF ARAGONITE－TYPE TO CALCITE－TYPE PONDER PATTERN OF GAYLUSSITE．＊4 APPLICATION TO INDEXING THE PO412．4H2O，NEW MINERAL．＊
PRECAMBRIAN BELT SERIES．＊ SHITZERITE，（MN，FEI31 PRECHMBRIMN PRECAMBRIAN OF IOWA．＊－FERRIC OXYCHLORIDE FROM THE PRECAMBRIAN SUBGRAYWACKES FROM NORTH／I WETAMORPHISM OF LATE PREFECTURE，JAPAN．事＋OF ALTERED BASALT FROM MAZE，NIIGATA PREFECTURE，JAPAN，WITH SOME EXPERIM／／FROM ONIGAJO，MIE PREFERRED ORIENTATION IN DIFFRACTOMETER SAMPLES．＊REDUCING PREHNITE，AZ（AL，FE＋3）（SI 3ALOLO）（OH）Z．TETRAHEDRAL ALUMINUM IN PRESENTATION OF THE MINERALGGICAL SOCIETY OF AHERICA AMARDH PRESENTATION OF THE ROEBLING MEDAL TO MAX H．MEY．＊
PRESSURE DEPENDENCE OF DEHYDROXYLATI／／AND VAPOR PAESSURE DEPENDENCE OF KAOLINETE．＊＋I．TEMPERATURE AND VAPOR PRESSURE，＊GYPSUM－ANHYDRITE EQUILIBRIUM AT ONE ATMOSPHERE PRESSURES．${ }^{\circ}$－OF STILBITE TO WAIRAKITE MT LOW WATER VAPOR PROBE MICROANALYSIS AND GEOTHERMOMETRY OF SPHALERI＊ELECTRON PROBE MICROANALYSIS OF SPHALERITE。事 ELECTRON PROCEDURE FOR THE IDENTIFICATION OF SMALL CRYSTALS BY $X-+A$ PROCEEDINGS DF THE EIGHTH CONFERENCE DN THE SILICATE INDUS＋ PRDCEEDINGS OF THE FORTY－SEVENTH ANNUAL MEETING DF THE＋ PROCEEDINGS OF THE SEVENTH CONFERENCE ON THE SILICATE INOUA PRDDUCED BY WEATMENING DF THE WOLF CREER S SECONDARY MINERALS PRDOUCT OF PLAGIOCLASE．+ H ALUMINA ALLOPHANE AS A HEATHERING PROGRAM FOR REFINING CELL PARAMETERS FROM WEISSENB＋COMPUTER PRDGRAMMED CDURSE IN THREE DIMENSIONS．${ }^{\text {P }}$ CRYSTALLOGRAPHY A PROTOPARTZITE．＊
PROVINCES IN THE RARROO BASALTS OF／／AND PETROGRAPHIC PSEUOO－AENIGMATITE．＊

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PSEUDOLEUCITES OF GHORI, CHHOTA UCAIPUR, INDIA** GIANT PSEUDURUTILE.*
PSEUDORUTILE.*
PURIFTED TRIDYMITE.*
THE THERMAL STABILITY OF OPTICAL ANISOTROPY IN

Cleavage In
PYRITE.*
TRUCTIJRE OF A
PYROXENE OF FORMILA MIMIIISII.5ALC.5//
OF OLIVINES ANO PYROXENES.* + OF THE ELECTRONIC SPECTRA OF IRON IN PYROXENES.* ASSIGNMENTS FOR THE SPECTRA OF FERROUS IRON IN QUADRANGLE CALIFORNIA.* GEOLOGY OF THE OROVILLE QUAORUPOLE COUPLING TENSORS OF AL 27 IN KYANITE. +THE NIJCLEAR QUANTITATIVE GHEMICAL ANALYSIS OF MINERALS IN THIN - SECTI+ QUARTZ ANO DOLCMITE. + FRRMATION OF SAPONITE FROM KAOLINITE, QUARTZ DIFFERENTIAL THERMAL CURVES // OF KAOLINITE ANO QUARTZ.* + VARIATION OF H - BONDED OH IN SYNTHETIC ALPHA QUEENSTOWN.* + IN THE MOKE CREEK SULPHIDE LODE, WAKATIPI, RADIATION DOSIMETRY FROM THE NATURAL THERHOLUMINESCEMCE OF+ RANDOMLY INTERSTRATIFIED ALUMINIAN // SYNTHESIS.II. A RARE EARIHS IN MINERALS OF IHE JOAQUINITE GROUP.*
REACTIDNS IN THF SYSTEM CACE3-MGCC3-FECO3 BETWEE+SUBSOLIDUS REAGENT AS AIDS IN ISOLATING PHOSPHA// - MDLYBDATE RECOGNITION**

MINERAL
REDUCING PREFERRED ORIENTATION IN DIFFRACTOMETER SAMPLES.* REEXAMINATION OF BERMANITE.*
REFINEMENT DF THE CRYSTAL STRUCTURE OF A PYRQXENE OF FORMU+ REFINEMENT OF THE CRYSTAL STRUCTURE OF JOHANNSENITF.* REFINEMENT OF THE CRYSTAL STRUCTURE OF A GLAIIBERITE.* REFINEMENT OF THE STRUCTURE OF BARITE.*
REFINEMENT.*+TECHNIQUE FOR USING TWINS IN CRYSTAL STRUCTIJRE REFINING CELL PARAMETERS FROM WEISSE// COMPUTER PROGRAM FOR REFRACTIVE INDEX DETERMINATION BY // PROPERTIES ON REGIONAL GEOLOGY OF CZECHOSLOVAKIA PART I THE BOHEMIAN + REGULAR THO - LAYER STRUCTURES.* CHLORITE POLYTYPISM. IV. RELATED BRITTLE MICAS.* + MEMBER OF THE MARGARITE GROUP ANO RELATEO PHASES.* + RELATIONS IN THE SYSTEM PBO-FE2D3-SIO2.* RELIEF MECHANISMS.* + MINERAL SHOWING DIVERSE STRAIN REPLY.* + AS A CONSTANT VCLUME METASOMATIC PROCESS. REPLY.* + AND THERMAL EXPANSICN OF BETA - CRISTOBALITE. REPLY.* + SPECTRA OF IRON IN THE ROCK - FORMING SILICAIES. REPLY.* MYRMEKITE IN CHARNCCKITE FROM SOUTHWEST NIGERIA. A RESEARCH.* METHODS OF $X$ - RAY SPECTROSCOPIC RESOURCES OF TRINITY COUNTY CALIFGRNIA.* MINES AND MINERAL RESTUOY. ${ }^{(1)}$ EZCURRITE, 2NA20.5B203.7H2O. A RETZIAN, MN3 24Y3+(DH)4(ASO4).* + MN2 2+MN3+(DH)4(ASO4) AND REUNION.* + - MUGEARITE SILL IN PITON DES NEIGES VOLCANO, RIIWO4-TYPE TIINGSTATES.*+ SCLUTICNS OF SCHEELITE WITH OTHER RIVADAVITE, NAGMGB24040. 22 H 20 , A NEW BORATE FROM ARGENTINA4 ROCK - FORMING SILICATES. A OISCUSSI// OF IRON IN THE ROCK - FORMING SILICATES. REPLY.* SPECTRA OF IRON IN THE ROCK FORMING HINERALS.* AN INTRODUCTION TO THE ROCKS AND CARBONATITES DF THE KOLA // ULTRABASIC ALKALIC RDCKS AS A FUNCTION OF CALCIUM CCATE// NEVADA GRANITIC ROCKS OF THE ARKANSAS RIVER AREA, // AND ALKALIC ROCKS. F FLUORINE DETERMINATICN IN MINERALS ANO ROCKS.* FE/(FE+MG) RATIO IN BIOTITE FROM GEORGIA GRANITIC ROCKS.* + HALOS IN BIOTITES OF SCME SIERRA NEVADA GRANITIC ROCKS.* + DISTRIBUTION PATTERNS IN SOME PCRPHYRITIC IGNEOUS ROEBLING MEDAL TO MAX H. HEY. $\ddagger$ PRESENTATION OF THE ROEBLING MEDAL.* ACCEPTANCE OF THE ROEDDERITE AND ITS BEARING ON OSUMILITE+A NEW OCCURRENCE OF ROSEITE.*
ROSENHAHNITE, A NEW HYDRDUS CALCIUM SILICATE, FROM MENDOCI + RULES AND ASSIGNMENTS FOR THE SPECTRA OF FERROUS +SELECTIDN RUTILE. CORRECTION.* METEDRITIC RYUJIMA MINE, JAPAN, 末 MAGNESIAN KUTNAHORITE FROM

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S MICROCLINE - LOW ACBITE SCLIO SCLU// IN ORVILLE' SACHSISCHEN BERG - UND HUTTENWESENS./l DER GESCHICHTE DES SALMO, BRITISH COLUMBIA, CANADA.* + METAMORPHIC AUREOLE NEAR SALT BASINS AROUND AFRICA.*
SALT SOLUTIONS.*
GROWTH OF BERYL FROM MOLTEN
SALTA, ARGENTINA.* MACALLISTERITE, 2MGO.6B203.15H20, FROM SAMPLES. REOUCING PREFERRED ORIENTATION IN DIFFRACTOMETER SANIDINE - HIGH ALBITE SOLID SOLUTIO/I - LOW ALBITE AND THE SAPDNITE FROM KAOLINITE, QUARTZ AND DOLOMITE.* FORMATION DF SCATTERING. IMPROVEMENTS AND EXTENSI// SCHAURTEITE.*
SCHEELITE WITH OTHER RIIWO4-TYPE, // SOLID SOLUTIONS OF SCHEELITE.* + SOLUTION RELATIONSHIPS BETMEEN WOLFRAMITE AND SCHEME OF SOIL ALLDPHANE.*

A STRUCTURAL
SCIENCE VOL III DRY SILICATE SYSTEMS.*
SCIENCE VOL IV HYOROTHERMAL SILICATE SYSTEMS.*
SILICATE
silicate SCIENCE VIL V CERAMICS AND hYDRAULIC BINDERS** SILICATE SECONDARILY HYDRATED NATURAL'SILICIC// CONTENTS OF SOME SECONDARY MINERALS PRODUCED BY WEATHERING OF THE WOLF CREE+ SEDIMENTS.*+SEPARATION OF OOLOMITE FROM FINE GRAINED RECENT SELECTION RULES AND ASSIGNMENTS FCR THE SPECTRA OF FERROUS+ SEPARATION OF DOLOMITE FROM FINE GRAINEC RECENT SEDIMENTS.+ SERPENTINE MINERAL SHOWING OIVERSE STRAIN - RELIEF MECHAN+A SERPENTINE.* $X$ - RAY STUDY OF SIX - LAYER ORTHO SERPENTINE.* + PRESSURE DEPENDEACE OF DEHYDROXYLATION OF SERPENTINIZATION CONSIDERED AS A CONSTANT VOLUME METASOMAT+ SERPENTINIZATION CONSIDERED AS A CONSTANT VOLUME METASOMAT+ SEVENTH ANNUAL MEETING OF THE MINERA// OF THE FORTY SEVENTH CONFERENCE DN THE SILICATE // pROCEEDINGS OF The SHALE AT VOLGA, CLAYTON COUNTY, // IN THE MAQUOKETA ShATTUCKITE.* SHATTUCKITE.*
SHATTUCKITE,*
Shear streng th ano weakening of zeolitizeo tuffs from the + Sheba lean mine death valley california.* geology of the Shells.* + from the natural thermoluminescence df fossil SHOWING DIVERSE STRAIN - RELIEF // A SERPENTINE MINERAL SI-O ABSORPTION BAND NEAR $1000 \mathrm{CM-1}$ AND OH ABSORPTION BANO+ SIPERIA.* CALZIRTITE FRON CARBONATITES OF NORTHERN SIERRA NEVADA GRANITIC ROCKS AS A // MINERALS IN SOME SIERRA NEVADA GRANITIC ROCKS.* + HALDS IN BIOTITES OF SOME SIK beta x-ray line for silicates. * chemical effects on the SILICA MINERALS.*+OF SIO2-X AND ITS RELATION TO THE NATURAL SILICATE INDUSTRY.* + OF THE EIGHTH CONFERENCE ON THE Silicate industry.* + CF the seventh conference on the Silicate science vol ilf dry silicate systems.*
SILICATE SCIENCE VOL IV HYCROTHERMAL SILICATE SYSTEMS.* SILICATE SCIENCE VOL V CERAMICS AND HYORAULIC BINDERS.* SILICATE SYSTEMS.*

SILICATE SCIENCE VDL III DRY SILICATE SYSTEMS.* SILICATE SCIENCE VOL IV HYDROTHERMAL SILICATE, FROM MENDOCINO COUNTY, // NEW HYOROUS CALCIIJM SILICATES FRCM LOCATICNS OF CONJUGAT// PROPERTIES OF SILICATES. A DISCUSSION.* + OF IRON IN THE ROCK - FORMING SILICATES. LARSENITE, BARYSILITE // OF LEAD SILICATES. REPLY.* + SPECTRA OF IRDN IN THE RDCK - FORMING SILICATES.*+CHEMICAL EFFECTS ON THE SIK BETA X-RAV LINE FOR SILICIC GLASSES.* + OF SCME SECCNDARILY hYDRATED NATURAL SILICOMANGANBEREZELIITE.*
SILICON CARBIDE.* A STUDY OF POLYTYPISM IN SILL in PIton oes neiges volcano, // basalt - mugearite SILVER "HALFBREEOS'.* + CF CCPPER IN NATIVE COPPER SIRGLE - GRYSTAL TGANSFORMATIONS OF ARAGON+MEMORY EFFEGT IN SINGLF CRYSTALS.* GROWTH OF SYNTHETIC CALCITE SIO2-X ANO ITS RELATION TO THE NATURAL tTHERMAL BEHAVIOR OF SIO2NAOH-FE-H2O.*+ GRUNERITE AND OTHER PHASES IN THE SYSTEM SITE, NEVADA.* + OF ZEOLITIZED TUFFS FRQM THE NEVADA TEST

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N5 20280
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N520276
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A521174

SIX - LAYER ORTHO - SERPENTINE.* $X$ - RAY STUNY OF SII.5ALO.5106, * STRUCTURE QF A PYROXENE OF FORMULA MIMII! SI3ALO101(0H)2.* * ALUMINUM IN PREHNITE, A2(AL,FE + 3) ( SMALL CRYSTALS BY $X$ - RAY DIFFRACTIO// IDENTIFICATION OF SOOIAN STILBITE FROM ONIGAJC, MIE PREFECTIJRE JAPAN* WITH+A SODIUM, POTASSIUM ANO FERROLS IRON CONTENTS OF SOME SECOND + SOIL ALLOPHANE ** A STRUCTURAL SCHEME DF SOILS AND MINERAL DEPOSITS. + DETERMINATION IN CLAYS DF SOLID SOLUTION RELATIONSHIPS BETHEEN NOLFRAMITE AND SCHEEL*
 SOLID SOLUTION SERIES.* + ORVILLE'S HICROCLINE - LDW ALBITE SOLID SOLUTIONS DF SCHEELITE WITH CTHER RIIWO4-TYPE TUNGST + SOLUTION CONCENTRATION ON THE COMPOSITION +EFFECT OF PH AND SOLUTION RELATIONSHIPS BETHEEN WOLFRAMITE AND SCHEELI $\$$ SOLID SQLUTION SERIES.* + AND THE SANIDINE - HIGH ALBITE SOLID SOLUTION SERIES** + ORVILLE'S MICROCLINE - LON ALBITE SOLID SOLUTIONS OF SCHEELITE WITH OTHER PIIWO4-TVPE TUNGSTAHSOLID SOLUTIONS.*

GROWTH OF BERYL FROM MOLTEN SALT SOLVENTS. I. $X$ - RAY DIFFRACTION // IN VARIOUS ORGANIC SOLVENTS. II. ELECTRON MICROSCOPY // IN VARIOUS DRGANIC SORENSENITE.*
SOUTH AFRICA.*
MACK INAHITE FROM SOUTH WALES.*+ THE GRETA COAL MEASURES AT MUSWELLBRODK, NEW SOUTH WALES, AUSTRALIA.* - UPPER HUNTER VALLEY. NEW SOUTH WEST AFRICA. AN INFRARED ANO // AND VANADINITE FROM SOUTHERN AFRICA** PROVINCES IN THE KARROO BASALTS DF SOUTHWEST NIGERIA. A DISCUSSION. ${ }^{*}$ IN CHARNDCKITE FROM SOUTHWEST NIGERIA. A REPLY.* HYRNEKITE IN CHARNDCKITE FROM SPECTRA AND COMPOSITION OF BIOTITES.// INFRARED ABSORPTION SPECTRA IN COREIERITE** * AND VIBRATIONAL ABSORPTION SPECTRA OF FERROUS IRON IN PYROXENES// ASSIGNMENTS FOR THE SPECTRA OF IRON IN PYROXENES. $\ddagger$ OF THE ELECTRONIC SPECTRA OF IRON IN THE ROCK - FORMING + OPTICAL ABSORPTION SPECTRA OF IRON IN THE ROCK - FORMING + OPIICAL ABSORPTION SPECTRA OF SOME CARBONATE MINERALS.* INFRARED (500-30 CM-1) SPECTRA OF SOME SYNTHETIC TALCS**

INFRARED
SPECTRA.* + THE CUMMINGTONITE - GRUNERITE SERIES $8 Y$ MOSSBAUER SPECTROSCOPIC RESEARCH.* METHODS OF $X$ - RAY SPECTROSCOPY * $\#$ + EXCHANGE CAPACITY OF CLAYS BY INFRARED SPHALERITE IN THE MOKE CREEK SULPHID// GEOTHERMDMETRY OF SPHALERITE.* ELECTRON PROBE MICROANALYSIS GF SPHERULES IN IMPACTITE AND TEKTITE GLASSES.* METALLIC STAINING METHODS AND ADAPTATIONS // IN K - FELDSPAR STEWART * ${ }^{*}$ * SOCIETY OF AMERICA AWARD TO DAVID 8. STILBITE FROM ONIGAJO, MIE PREFECTURE, JAPAN, WITH+A SODIAN STILBITE TO WAIRAKITE AT LOW WATER // THE CDNVERSION OF STOCK. COLORAOO.* + IN THE CONTACT AUREOLE DF THE ELDORA STRAIN - RELIEF MECHANISMS.\# MINERAL SHOWING DIVERSE STRENGTH AND UEAKENING OF ZEOLITILED TUFFS FROM THE + SHEAR STRDNTIUM AND MANGANESE CONTENT OF SOME COEXISTING CALCITE* STRONTIGM THOMSONITE, *LANCHEITE,*
STRUCTURAL AND CHEMICAL EFFECTS ON THE SIK BETA X-RAY LINE* STRUCTURAL ASPECTS OF DIOCTAHEDRAL CHLORITE.*
STRUCTURAL SCHEME OF SOIL ALLOPHANE.辛
STRUCTURE AND. OPTICAL PROPERTIES CF POLLUCITE.* CRYSTAL STRUCTURE OF A GLAUBERITE.* REFINEMENT OF THE CRYSTAL STRUCTURE OF A PYROXENE OF FORMULA // OF THE CRYSTAL STRUCTURE OF AIKINITE.* + SIRUCTURES DERIVED FROM THE STRUCTURE OF BARITE.* STRUCTURE OF CHERALITE.* A REFINEMENT OF THE STRUCTURE OF FLUELLITE. A CORRECTION.* THE CRYSTAL STRUCTURE OF HEULANOITE (CA,NA2) (AL2SI7018).6H2+THE CRYSTAL STRUCTURE DF JOHANNSENITE. * REFINEMENT OF THE CRYSTAL STRUCTURE REFINEMENT• + TECHNIQUE FOR USING THINS IN CRYSTAL STRUCTURES DERIVED FROM THE STRUCTUR// OF SULFOSALT STRUCTURES QF FLINKITE. MN2 $2+$ MN3*10 I. THE CRYSTAL

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Structures.* Chlorite polytypisn. IV. regular two - layer STRYCHNINE - MOLYBDATE REAGENT AS AIDS + ORGANIC TYES AND A SUBGRAYHACKES FROM NORTHERN IITAH.* OF LATE PRECAMBRIAN SUBSOLIDIUS REACTIONS IN THE SYSTFN CACO3-MGCO3-FECO3 BETWE* SULFATE - FREE BEUDANTITE.* UNNAMED SULFIDE.*
unnamed lead - antimony SULFOSALT Structures oerived from the a classificatitn if SULFUR FUGACITES DURING DIAGENESIS // GARBON OIOXIDE, aND SULPHIOE LODE, WAKATIPU, QIJEENSTOWN.// IN THE MOKE CREEK SUOLIINITE.*
SUPPLEMENTAL DATA ON THE CORRELATICN OF INFRARED ABSORPTIO+ SURFACE PROPERTIES ON REFRACTIVE INDEX DETFRM+THE EFFECT OF SUSCEPTIBILITIES OF SOME TRIOCTAHEDRAL MICAS.+MASS MAGNETIC SVIDNEITE.*
SWITZERITE, (MN,FE)3(PC4)2.4H20, A NEW NINERAL.* SYMMETRY AND PHYSICAL PROPERTIES.*

CRYSTAL SYNNEUSIS ON PHENOCRYST CISTRIBUTION PATTERNS+THE EFFECT OF SYSTEM AND THE SYNTHESIS OF THE MINERAL + THE BI2TE3-8I2S3 SYSTEM CACO3-MGCO3-FECO3 BETWEEN // REACTIONS IN THE SYSTEM CAO-MGD-CO2-H2N AT CRESTMORE,I/ ANO PETROLOGY OF THE SYSTEM Didpside - akermanite - nepheline.* SYSTEN FEO-FE2O3-SIO2-H2O.* A NOTE ON THE
SYSTEM MGO-HEOH-SIO2** + OF OLIVINES AND PYROXENES IN THE SYSTEM MGO-FEO-FE2O3-SIO2 AS A FUNCT// PHASES IN THE SYSTEM PBO-FE2O3-SIO2.* RELATED AND RELATIONS IN THF SYSTEM SIO2NAOH-FE-H2O.*+ GRUNERITE AND OTHER PHASES IN THE SYSTEMATIC ERRDR IN THE $X$ - RAY DETERMINATION OF THE + ON A SYSTEMS. CALCULATION OF THE TOTAL ONE + INTERSTRATIFIED CLAY SYSTEMS.*

SILICATE SCIENCE VOL III DRY SILICATE SYSTEMS.* SILICATE SCIENCE VQL IV HYDROTHERMAL SILICATE SYSTEMS.* + FROM LOCATIONS OF CONJUGATION LINES IN TERNARY TABELLEN 4TH ED.* rabellen.*
TALCS.*
INFRARED SPECTRA OF SOME SYNTHETIC TANTALATE.* + FERGUSONITE AND A NEW POLYMORPH OF YTTRIJM TEKTITE GLASSES.* METALLIC SPHERULES IN IMPACTITE ANO TEMPERATURE AND OXYGEN FUGACITY.*
as a findetinn if TEMPERATURE ANO VAPQR PRESSURE DEPEN// PROCESSES, I. TEMPERATURE AND VAPOR PRESSURE DEPEN// PROCESSES. II. TEMPERATURE CELL.* + THERMAL CURVES WITH A NEW HIGH TEMPERATURES.* + OF KAGLINITE FRCM MONTMORILLONITE AT LCW TENSORS DF AL27 IN KYANITE.* + NUCLEAR DUADRUPDLE COUPLING ternary phaseyntheses of lead silicalf and melanotekite. TERNARY SYSTEMS.* + FROM LOCATIONS OF CONJUGATION LINES IN TERRESTRIAL MASKELYNITE** TERTIARY VOLCANO IN EASTERN ICELAND.//

DF THINGMIJLI, A test site, nevada.* + OF 2EOLITIZED TUFFS FROM the nevada TETRADYMITE: * + SYSTEM AND THE SYNTHESIS OF THE MINERAL TETRAHEDRAL ALUMINUM IN PREHNITE, A2(AL,FE+3)(SI+ORDERING OF their significance.* + UNIT - CELL DIMENSIONS DF TOPAZ AND THERMAL ANALYSIS OF BIOTITIC VERMICULITE TO + DIFFERENTIAL THERMAL BEHAVIOR OF SIO2-X ANO ITS RELATION TO THE NATURAL+ THERMAL CURVES WITH A NEW HIGH TEMPE// QUARTZ DIFFERENTIAL THERMAL EXPANSION OF BETA - CRISTCBA/I PARAMETERS, AND THERMAL EXPANSION OF BETA - GRISTCBA// PARAMETERS, AND THERMAL EXPANSION OF LOW ANC HIGH ALBITE.* THERMAL STABILITY OF PURIFIED TRICYMITE.*
the THERMOANALYTICAL METHCCS OF INVESTIGATION.* THERMODYNAMIC PROPERTIES OF VES// COMPOSITIONS AND THERMODYNAMIC PROPERTIES OF TES FROM+DETERMINATIDN OF THERMOLUMINESCENCE OF CLAY THERMOLUMINESCENCE OF FOSSI: FROM THE NATURAL THERMOLUMINESCENCE DF SYNTHETEGELUORITE.* THIN - SECTION WITH THE $\boldsymbol{X}$ - RAY , /\% OF MINERALS IN THINGMULI, A TERTIARY VOLCAME RN EASTERN +THE MINERALOGY OF THOMSONITE.*LANCHEITE.*

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A520974 N521890 N520294 A521662 A520509 N520543 N5 20541 A520389 N521233 8521913 A521364 A520797 A521288 - 521297 A520371 A5 20493 A521815 N5205648

THREE DIMENSIONS．＊CRYSTALLOGRAPHY PROGRAMMED COURSE IN TITANIUM GARNETS，＊SVNTHETIC ZIRCONIUM AND TITANIUM OXIDE．＊ UNNAMED IRON－ TOPAZ AND THEIR SIGNIFICANCE．＋UNIT－CELL DIMENSIONS DF TOTAL ONE－DIMENSIONAL DIFFRACTICN／／CALCULATION DF THE TOURMALINE FROM MARIPOSA COUNTY．／／ ano Vanadium TRACHYTE．＊＋AENIGMATITE FROM THE GROUNDMASS OF A PERALKALINE TRANSFORMATION IN THE CONTACT AUREOL／／－ORTHOCLASE TRANSFORMATIONS OF ARAGONITE－TYPE／／IN SINGLE－CRYSTAL TRANSITION WITHIN A CONTACT AURECLE．／／－ORTHDCLASE TRIOYMITE．車 TRIDYMITE．${ }^{\text {F }}$ THE THERMAL STABILITY OF PURIFIED TRINITY CDUNTY CALIFORNIA．＊MINES AND MINERAL RESOURCES OF TRIOCTAHEDRAL BRITTLE MICAS．＊THE TRIOCTAHEDRAL MEMBER OF THE MARGARITE GROUP AND HEPHESITE A TRIOCTAMEDRAL MICAS．＊+ MAGNETIC SUSCEPTIBILITIES OF SOME TUFFS FROM THE NEVADA TEST SITE，$/ /$ OF ZEOLITIZED TUNGSTATES．＊＋SOLUTIDNS OF SCHEELITE WITH OTHER RIINO4－TYPE
TUNGUSITE．＊
TURITE．
TWINNING。\＃KINETIC CONSIDERATIONS IN THE GENESIS OF GROWTH THINS IN CRYSTAL STRUCTURE REFINEPEN／／TECHNIQUE FOR USING TWO－LAYER STRUCTURES．\＃CHLDRITE POLYTYPISM．IV．REGULAR TWO MEMBERS OF THE BRAUNITE GROUP，DISTINCTIJN BETWEEN UDAIPUR，INDIA．＊GIANT PSEUDCLEUCITES OF GHORI，CHHOTA ULTRABASIC ALKALIC ROCKS ANC CARBCNA／f COMPLEX OF UNDISCOVERED MINERAL。草 BABEF4，A POSSIBLE UNIT－CELL OIMENSIDNS OF SOME ALUMINOUS NATURAL CLINOPYROH UNIT－CELL DIMENSIDNS OF TCPAZ AND THEIR＋甘ARIATIONS IN THE UNIT－CELL PARAMETERS OF THE MICROCLINE－LOW ALBITE AND＊ UNNAMEO CALCIUM IRCN ARSENITE．＊
UNNAMED IRON－TITANIUM OXICE．＊
UNNAMED LEAD－ANTIMONY SULFIDE．＊
UNNAMED MINERAL．＊
UNNAMED MINERALS。＊
UNNAMED PALLADIUM－BISMUTH－LEAD MINERAL．＊
UNNAMED SULFATE－FREE BEUDANTITE．＊
UPPER HUNTER VALLEY．NEW SOUTH WALES／／OF HALLOYSITE， USOVITE．＊
IJTAH．＊
AUSTINITE FROM GOLD HILL， IJTAH．＊＋OF LATE PRECAMBRIAN SUBGRAYHACKES FROM NORTHERN $V$ CERAMICS AND HYDRAULIC BINDERS．＊SILICATE SCIENCE VOL VALLEY CALIFORNIA．GEOLOGY OF THE SHEBA LEAD MINE DEATH VALLEY，NEW SOUTH WALES，AUSTRALIA＊＊ALLOYSITE，UPPER HUNTER VANADINITE FRTM SOUTH WEST AFRICA．／／MOTTRAMITE，AND VANADIUN MUSCOVITE AND VANADIUM TCURMALINE FROM＋BARIUM－ VANADIUM TOURMALINE FRUM MARIPOSA／／MUSCOVITE AND VAPOR PRESSURE DEPENDENCE DF DEHYCRO／／II．TEMPERATURE AND VAPOR PRESSURE DEPENDENCE OF KAOLINI／／I．TEMPFRATURE AND VAPOR PRESSURES．$\ddagger$＋OF STILBITE TO WAIRAKITE AT LOW WATER VERMICULITE－ALKYL AMMONIUN COMPLEXES．＊
VERMICILITE CONTENT．＊＋OF BIOTITIC VERMICULITE TO DETERMINE VERMICULITE TO DETERMINE VERMICULITE／／ANALYSIS OF BIOTITIC VIBRATIONAL ABSORPTICN SPECTRA IN CORDIERITE廿ELECTRONIC AND VIRGINIA．＊

LITHIOPHORITE FROM CHARLOTTESVILLE，
VCLCAND IN EASTERN ICELANO．＊${ }^{*}$－OF THINGMULI，A TERTIARY VOLCAND，REUNION：＊＋－MUGEARITE SILL IN PITON DES NEIGES VOLGA，CLAYTCN COUNTY，IOWA．＊＋IN THE MAQUOKETA SHALE AT VOLTZITE．＊
VOLUME METASOMATIC PROCESS．A DISCUS／／
AS A CONSTANT VOLUME METASOMATIC PRDCESS．REPLY．＊ONSIDERED AS A CONSTANT VUGS IN THE MAGUOKETA SHALE AT VQLGA／f IN CRYSTAL－LINED HAIRAKITE AT LDW WATER VAPOR PRESSUR／／OF STILBITE TO WAKATIPU，QUEENSTOWN．＊+ IN THE MCKE CREEK SULPHIDE LODE， WALES．＊＋THE GRETA CCAL MEASURES AT MUSHELLBRDOK．NEW SOUTH WALES．AUSTRALIA．＊＋UPPER HUNTER VALLEY，NEW SOUTH

B521911
． 520773
M521580C
N521890
$\uparrow 520661$
N521577
N5 21895
A5 20117
A5 20957
－ 520087
N520536
N5 21233
8520566C
4521122
A521689
A521643
4521174
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M521579C
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A5 21475
A521735
A5 20617
N5 20545
N5 20549
A521735
A521438
N520524
N5 21216
A521795

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WEATHERING OF THE WOLF CREEK METEORI// MINERALS PRODUCED BY A521190
WEATHERING PRODUCT OF PLAGICCLASE.* ALUMINA ALLOPHANE AS A A520254
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Y3+(OH)4(ASO4).*+ MN2 2+MN3+(OH)4(ASO4) AND RETZIAN, MN3 24 A521603
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ZRO2-SIO2 PHASE DIAGRAM.* ZIRCON STABILITY ANO THE N52088O
ZVAGINTSEVITE.*
M5202998
ZVYAGINTSEVITE.** M5215878
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