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Jeoloji Panorama

Jeoloji Mühendisliği Dergisi'nin 50. sayısının "Jeoloji Panorama" Dünya PeriyodÜderinde CD Tarama sayfalarında "Karbonatların jeokimyası" konusu araşbrmacüann hizmetine sunulmaktadır. Öz/Abstract bölümünde sayfa sınırlaması nedeniyle ancak 4 öz/abstract'a yer verildi.. Sempozyumlardan haberlere 1997 yılında Çukurova ve Selçuk: Üniversiteleri Jeoloji Mühendisliği Böllimleince .gerçekleştirilmiş Jeoloji Sempozyumlan ko.no yapılmışta. Çeşitli yayınevlerinden derlenen yeni, yaym ve kitaplarla okurianmizm Iteratör dağarcığı daha da zen.ginleşmiş olacakta.. Yapılan değerlendirme sonucunda oldukça ilgi göreceğine .inandığımız ""Jeoloji .Panorama*** sayfalarına içerdikleri konu başlıkları, kapsamında sizlerden gelecek, olan yazıları beklemektedir. Bo düşünce ile sizlerinde katkılarıyla jeolojinin çeşitli, disiplinlerine daha. geniş bir perspektifle bakabilmek olanağı bulunulacaktır. Ayrıca okurlarımızın bize gönderecekleri öğrenmek istedikleri konulan ve yanıtlamamızı istedikleri somları, yanıtlan ile birlikte bulacakları "Okurlarımızdan** başlığı ile yeni. bir bölümü gelecek, sayımızdan başlayarak "Jeoloji Panorama" içinde yer vereceğiz..

Dünya Periyodiklerinden CD-Tarama GEO-REF (1983-1993)

Hazırlayanlar Engin öncü. Sümer ve Mine Sümer.
Konu: Karbonatlı kayaçların jeokimyasal, özelikleri

Kısaltmalar

TI = Başlık

AU = Yazar (fer)

ÖS = Yayınlandığı yer,, cilt, sayfa

AB' = Yayınının özeti

YE = Yayınlandıgı, yıl

LA = Yayınının yazıldığı dil

DE = Yayınının, anahtar' sözcükleri

GEOCHEMISTRY OF CARBONATE (References) (ODTÜ Kütüphanesi GEOREF 1983-1993 CD-taraması)

TI: Sedimentary cycling and -environmental change in the late Proterozoic; evidence from stable sand radiogenic isotopes.

AU: Derry-Louis-A; Kaufman-Alan-J; Jacobsen-Stein-B

SO: Geochimica-et-Cosraochimica-Acta.. 56.. (3). p. İ 317-1329. YR: 1992

DE: carbon-; C- δ 13/C-12; carbonate-rocks; strontium-; Sr-87/Sr~86; oxygen-; 0-18/0-1.6; isotopes-; sedimentary-rocks; upper-Proterozoic; Proterozoic-; upper-Precambrian; Precambrian-; stable-isotopes; radioactive-isotopes; alkaline-earth-metals; metals-; ratios-; marine-environment; environment-

TI: Geochemistry of Precambrian carbonates; IV, Early Paleoproterozoic (2.25 + or - #<25 Ga) seawater.

AU: Veizer-Jan; Oayton-Robert-N; Hinton-R-W

SO: Geochimica-et-Cosmochimica-Acta. 56. (3). p.. 875-885. YR: 1992

DE: South-Africa; geochemistry-; carbonate-rocks; Australia-; Canada-; oxygen-; Q-18/O-16; carbon-; C-13/C-12; isotopes-; sedimentary-rocks; strontium-; Sr-87/Sr-86; Precambrian-; lower-Proterozoic; Proterozoic-; upper-Precambrian; Malmani-Dolomite; Transvaal-Supergroup; Southern-Africa; Africa-; Duck-Creek-Dolomite; Wyloo-Group"; Australasia-; Bruce-Member; Espanola-Formation; Huronian-; trace-elements; stable-isotopes; ratios-; marine-environment; environment-; alkaline-earth-metals; metals-

TI: Carbonate minerals, major and minor elements and oxygen, and carbon isotopes and their variation with water depth in cool, temperate carbonates, western Tasmania, Australia.

AU: Prasada-Rao-C; Adabi-Mohammad-H

SO: Marine-Geology. 103. (1-3). p. 249-272.. YR: 1992

DE: Tasmania-; oceanography-; sediments-; Tasman-Sea; oxygen-; O- δ 8/0-16 ; carbonate-sediments; carbon-; C-13/C-12; isotopes-; diagenesis-; cementation-; geochemistry-; processes-; chemical-fractionation; Australia-; Australasia-; West-Pacific; Pacific-Ocean; carbonates-; major-elements; minor-elements; stable-isotopes; sedimentation-rates; marine-sediments; temperate-environment; environment-; depth-; temperature-; SEM-dala; X-ray-diffraction" data; bryomol-; bioclastic-sedimentation

TI: Glacial to interglacial contrasts in the calcium carbonate content and influence of Indus discharge in two eastern Araman Sea cores.

AU: Divakar-Naidu-P

SO: Palaeogeography,-Palaeoclimatology,-Palaeoecology. 86. (3-4). p. 255-263. YR: 1991

DE: Arabian-Sea; stratigraphy-; Quaternary-; sediments-; composition-; calcium-carbonate; Indian-Ocean; Indus-River; cores-; discharge-; distribution-; geochemistry-; Holocene-; Pleistocene-; glacial-environment; environment-; interglacial-environment fluctuations-; climate-; changes-; indicators-

TI: Geochemical mapping of carbonate terrains.

AU: Pire-Simon; McNeal-J-M; Lenarcic-T; Prohic-Esad; Srvkota-R

SO: Applied-Earth-Sciences.. 100. p. B74-B87. YR; 1991

DE: Yugoslavia-; geochemistry-; surveys-; geomorphology-; solution-features-; karst-; cartography-; topography-; terrains-; carbonates-; Southern-Europe; Europe-; statistical-analysis; soils-

TI: Strontium isotope profile of Carboniferous-Permian Akiyoshi Limestone in Southwest Japan.

AU: Nishioka-Sumino; Arakawa-Yoji; Kobayashi-Yoji

SO: Geochemical-Journal. 25. (3). p. 137-146. YR: 1991

DE: Japan-; geochemistry-; isotopes-; Sr-87/Sr-86; limestone-; strontium-; sedimentary-rocks; Akiyoshi-Limestone; Honshu-; Far-

East; Asia-; alkaline-earth-metals; metals-; sedimentary-petrology; carbonate-rocks; stable-isotopes; Carboniferous-; Permian-; interpretation-

TT: Pétrographie and geochemical analysis of caliche profiles in a Bahamian Pleistocene dune.,

AU: Beier-J-A SO: Sedimentology. 34. (6). p. 991-998. YR: 1987

DE: Bahamas-; geochemistry-; sedimentary-rocks; carbonate-rocks; caliche-; carbon-; C-13/C-12; oxygen-; O-18/O-16; isotopes-; ratios-; upper-Pleistocene; Pleistocene-; Quaternary-; West-Indies; clastic-rocks; eolianite-; "stable-isotopes; trace-elements; petrography-; San-Salvador

TI: Petrological and isotopic implications of some contrasting late Precambrian carbonates, ME Spitsbergen.

AU: Fairchild-I-J; Spiro-B SO: Sedimentology. 34. (6). p. 973-989.. YR: 1987

DE: Spitsbergen-; sedimentary-petrology; sedimentary-rocks; carbonate-rocks; geochemistry-; carbon-; C-13/C-12; oxygen-; O-18/O-16; isotopes-; ratios-; Svalbard-; Vendian-; upper-Ptotozoic; Proterozoic-; stable-isotopes.; iron-; metals-; manganese-; strontium-; alkaline-earth-metals-; diagenesis-; paieoenvironment-; upper-Precambrian; Precambrian-; Arctic-region; Polar-regions.

TI: Coordinated textural, isotopic, and elemental analyses of constituents in some Middle Devonian limestones.

AU: Popp-Brian-Nicholas OS; University of Illinois, Urbana, United-States; Master's SO; 136 p, YR: 1981

DE: sedimentary-rocks; limestone-; isotopes-; Devonian-; sedimentary-petrology; geochemistry-; carbonate-rocks; textures-; Middle-Devonian

TI: Stable isotope geochemistry of early Proterozoic carbonate concretions in the Animikie Group of the Lake Superior region; evidence for anaerobic bacterial processes.

AU: Winter-Beyce-L; Knauth-L-Paul SO: Precambrian-Research. 54. (2-4). p. 131-151. YR: 1992

DE: Minnesota-; geochemistry-; isotopes-; Ontario-; carbon-; C-13/C-12; concretions-; oxygen-; O-18/O-16; sulfur-; S-34/S-32; sedimentary-structures; secondai-structures; Aitimikie-Group; Rove-Formation.; Thomson-Formation; Gunflint-Iron-Formaön; Midwest-; Uni ted-States; stable-isotopes; lower-Proterozoic; Proterozoic-; dolomite-; carbonates-; precipitation-; diagenesis-; reduction-; Eastern-Canada; Canada-; Pass-Lake-Quarry; Oliver-Creek; electron-probe-data; authigenic-minerals; Lake-Superior-region

TI; Origin of carbonate deposits in the vicinity of Yucca Mountain, Nevada; pTellmlnary results of hydrochemical modeling.,

AU: Kroitoru-Levy; Livnat-Alex; Fenster-David-F; Van-Camp-Scott-G

SO: American-Geophysical-Union. 72. (17). p. 116 YR: 1991

DE: Nevada-; hydrogeologys ground-water; Nye-County-Nevada; Western-U.S.; United-States; sou.thern-Neva.da; Nevada-Test-Site; Yucca-Mountain; waste-disposal; radioactive-waste; high-level-waste; calcite-; carbonates-; fractures-; hydrochemistry-

TI: Geochemical constraints on the origin of dolomite in the Ordovician Trenton and Black River limestones» AIMon-Scipio area. Michigan.,

AU: Granath-Victoria-C

SO: AAPG-Bolietin, 75.. (3). p. 584-585 YR: 1991

DE: Michigan-; sedimentary-petrology; sedimentary-rocks; Trenton-Group; Black'-River-Group; Midwest-; United-States; geochemistry-; dolostone-; carbonate-rocks; ordovician-; limestone-; Albion-Scipio-Ftetd; Stoney-Point-Field; south-central-Michigan; strontium-; alkaline-earth-metals; metals-; Sr-87/Sr-86; isotopes-; stable-isotopes;

matrix-; cement-; dolomitization-; sea-water; brines-; fluid-inclusions-; inclusions-; geologic-thermometry; oxygen-; O-18/O-16; hydrogen-; D/H-; deuterium-; Michigan-Basin; North-America; siliciclastics-

TT: Carbon isotopic stratigraphy of the San Andres Formation; a possible correlation tool.?

AU: Colgan-R-Eugene; Scholle-Peter-A

SO: AAPG-Bulletin.. 75.. (3).. p. 555 YR: 1991

DE: Texas-; stratigraphy-; Permian-; San-Andres-Formation; Southwestern-U.S.; United-States; carbon-; isotopes-; correlation-; Algerita-Escarpment; Permian-Basin; transgression-; shelf-environment; environment-; nearshore-environ.m.ent; progradation.-; cycles-; dolostone-; carbonate-rocks.; C-1.3/0.12; stable-isotopes; dissolved.-materi.als; dolomi.tizati.on-; chemostratigraphy-

TI: Calchodolminescence and trace-element geochemistry of carbonate cements formed with burial in seawater.

AU: Budd-D-A

SO: AAPG-Bulletin., 75. (3). p. 547 YR: 1991

DE: Atlantic-Ocean; sedimentary-petrology; diagenesis-; cathodoluminescence-; trace-elements; cement-; carbonates-; sea-water; cementation-; Lower-Cretaceous; Cretaceous-; turbidite-; debris-flows; mass-movements; .DSDP-Site-534.; Leg-76; EPOB-; Deep-Sea-DrilHng-Project; DSDP-Site-416; Leg-50; aliochems-; petrography-; overgrowths-; siliciclastics-; Eh-; pH-; brines-; lime stone- ; carbo nate-rocks

TI: Diagenetic framework for chemical remanence acquisition in lower Paleozoic carbonate rocks from W.. Newfoundland.

AU: Beaubouef-R-T; Rush-P-F

SO: ÄAPG-Bulletin. 75. (3>. p. .539 YR: 1991

DE: Newfoundland-; sedimentary-petrology; diagenesis-; stratigraphy-; Paleoizoic-; Eastern-Canada; Canada-; lower-Paleozoic; carbonate-rocks ; western-Newfoundland; Saint-George-Group ; Tfemadocian-; Lower-Ordovician; Ordovician-; Port-au-Port-Peninsula; Cambrian-; autochthons-; uplifts-; petrography-; evolution-; fabric-; limestone-; dolostone-; paleomagnetism-; magnetization-; hematite-; oxides-; karst-; solution-features; dedolomitization-; remagnetization-; magnetite-; geochemistry-; cementation-; precipitation-; authigenic-minerals; dolomitization-

TI:: Kuwaiti dolocrete; petrology» geochemistry and groura.dwa.ter origin..

AU: El-Sayed-M-1; Fairchild-I-J; Spiro-B SO: Sedimentary-Geology. 73. (1-2). p. 59-75. YR: 1991

DE: Kuwait- " sedimentary-petrology; sediments-; sedimentary-rocks; chemically-precipitated-rocks; duricrust-; ground-water; geochemistry-; isotopes-; oxygen-; Q-18/O-16; carbon-; C-13/C-12; Arabian-Peninsula; Asia-; Quaternary-; calcrete-; carbonate-rocks; dolocrete-; stable-isotopes; dolomite-; carbonates-; dolostone-

TI: À reconnaissance carbon-oxygen isotopic study of nodritic components in Silurian marine carbonates from eastern Iowa.

AU: Ludvigson-Greg-A; Witzke-Brian-J; Gonzalez-L-A SO: - Geological-Society-of-America. 23. (3). p. 26 YR: 1991

DE: Iowa-; stratigraphy-; Silurian-; Scotch-Grove-Formation; Gower-Fbrmati.on; Le-Porte-City-Liroestone; Midwest-; United-States; carbon-; C-13/C-12; isotopes-; stable-isotopes; oxygen-; 0-18/0-16; carbonate-rocks; micritization-; diagenesis-; sedimentar-f-petrology; processes-; eastern-Iowa; dolomitization-

TI: Petroleum potentialities of central Tunisia as deduced from identification and characterization of oil source rocks.

AU: Saidi-M; Acheche-M-H; touibii-H; Belayouni-H

SO: AAPG-Bulletin. 75. (8). p. 1420 YR: 1991

DE: Tunisia-; economic-geology; petroleum-; North-Africa; Africa-; central-Tunisia; source-rocks; possibilities-; Silurian-; Devonian-; shale-; clastic-rocks; Cretaceous-; black-shale; Eocene-; Paleogene-;

Tertiary-; carbonate-rocks; genesis-; natural-gas; geochemistry-; organic-materials; exploration-

T1: Geochemistry of **metastable** carbonate minerals from the Brush Creek **marine** interval {Missourian}, Indiana County., Pennsylvania.

AU: Cercone-Karen-Rose; Kime-Amy; Metehler-Scott; **Rittler-Keith**

SO: AAPG-Bulletin., 75. (8). p. 1381 YR: 1991

DE: Pennsylvania-; geochemistry-; carbonates-; Indiana-County-Pennsylvania; Brush-Creek-Formation; Eastern-U.S.; United-States; minerals-; marine-environment; environment-; Mi&sourian-; Upper-Pennsylvanian; Pennsylvania-; Carboniferous-; western-Pennsylvania; aragonite-; calcite-; shells-; X-ray-diffraction-data; **magnesian-calcite**; isotopes-; carbon-; C- $\bar{13}$ /C-12; stable-isotopes; oxygen-; O-18/O-16; bivalves-; moMusks-; precipitation-; Pharkidonotns-; recrystallization-; textures-; SEM-data; crinoids-; echinoderms-; pore-water; **early-diagenesis**; diagenesis-

T1: Aspects of **the** chemistry of **modern and** fossil biological apatites.

AU: **Lee-Thorp-Julia-A**; van-der-Merwe-Nikolaas-J

OS: Univ.. Cape Town., Bep. Archaeol., Randesbosch, South-Africa; Univ.. Ha., United-States; Harvard Univ., United-States.

SO: Journal-of-Arehaeological-Science. 18. (3). p. 343-354. YR: 1991

DE: carbon-; isotopes-; C-13/C-12; Mammalia-; Primates-; Pleistocene-; South-Africa.: paleontology-; stable-isotopes; bones-; teeth-; Swartkrans-; geochemistry-; collagen-; proteins-; organic-materials; apatite-; phosphates-; carbonate-apatite; infrared-spectra; mammals-; Eutheria-; Theria-; biochemistry-; Quaternary-; diet-; Southern-Africa.; Africa-

T1: Carbon and oxygen isotope composition of lower Palaeozoic limestones .and concretions, an example of high temperature diagenesis.

AU: Buchardt-Bjorn

SO: Terra-Cognita. 4. (2). p. 219-220. YR: 1984

DE: Denmark-; geochemistry-; isotopes-; limestone-; carbonate-rocks; Scan.dlnavi.a-; Western-Europe; Europe-; Bochnholm-; geologic-thermometry; lower-Paleozoic; Paleozioc-; **O-18/O-16**; stable-isotopes; oxygen-; C-13/C-12; carbon-; IGCP-; high-temperature; diagenesis-

H: **Sr isotopic** variation in shallow **wafer carbonate** sequences; stratigraphie, chronostratigraphic, and eustatic implications of the record at **Enewetak Atoll**

AU: Quinn-Terrence-M; Lohrnann-K-C; Halliday-A-iSI

SO: Paleceanography. 6. (3). p. 371-385. YR: 1991

DE: strontium-; isotopes-; Sr-87/Sr-86; carbon-; C-13/C-12; oxygen-; O-18/O-16; Marshall-Islands; geochemistry-; stratigraphy-; Pleistocene-; sedimentary-rocks; carbonate-rocks; alkali ne-earth-metals; metals-; stable-isotopes; • Enewetak-Atoll; Micronesia-; Quaternary-; changes-of-level; variations-; shallow-water-environment; environment-; chronostratigraphy-; eustacy-

T1: **Geochemistry of Caihbro-Ordovician Arbuckle Limestone, Oklahoma; implications for diagenetic delta. (18)O alteration and. secular delta. (13)C and (87)Sr/(86)Sr variation..**

AU: Gao-Guoqiu; Land-Lynton-S SO: Geochimica-et-Cosmochimica-Acta. 55. (10).. p. 2911-2920. YR: 1991

DE: Oklahoma-; geochemistry-; isotopes-; oxygen-; O-13/O-16; carbon-; C-13/C-12; strontium-; 5r-87/5r-86; sedimentary-rocks; limestone-; Arbuckle-Group; Souihwestern-U.S.; United-States; Cambrian-; Ordovician-; carbonate-rocks; ratios-; stable-isotopes ; alkaline-earth-metals; metals-; diagenesis-; secular-variations; Slick-Hills; southwestern-Oklahoma

T1: **Fluorine mobility during early diagenesis of carbonate sediment; an indicator of mineral transformations.**

AU: Rude-Peter-D; Aller-Robert-C

SO: Geochimica-et-Cosmochimica-Acta. 55., (9).. p. 2491-2509.. YR: 1991

DE: fluorine-; geochemistry-; carbonate-sediments; Gulf-of-Mexico; diagenesis-; indicators-; halogens-; migration-of-elements; sediments-; early-diagenesis; marine-sediments; Florida-Bay; North-American-Atlantic; North-Atlantic; Atlantic-Ocean; pore-water; fluoride-ion; mobility-

T1: **Paleolimnologica**] signatures from, carbon and oxygen Isotopic ratios in carbonates from organic carbon-rich lacustrine sediments..

AU: **Talbot-M-R; Kelts-K**

SO: AAPG-Memoir.50.p.99-112. YR: 1990

DE: Ghana-; geochemistry-; isotopes-; sediments-; carbonate-sediments; sedimentary-petrology; carbon-; oxygen-; ratios-; lacustrine-environment; environment-; organic-carbon; organic-materials; carbonates-; **paleolimnology**-; West-Africa; Africa-; Lake-Bosumtwi; diagenesis-; water-; mineral-composition; **paleohydrology**-; processes-; salinity-

T1: Carbon dioxide in the Paleozoic atmosphere; **evidence** from carbon -isotope compositions of p e do genie carbonate.

AU: Mora-Claudia-I; Driese-Steven-G; Seager-Paula-G

SO: Geology-(Boulder). 19. (10). p. 1017-1020. YR: .1991

DE: Pennsylvania-; stratigraphy-; Paleozoic-; carbon-; isotopes-; C-13/C-12; sedimentary-rocks; clastic-rocks; Paiesols-; paleoclimatology-; Bloomsburg-Fo.rmati.on; C'atskill-Formation; Mauch-Chunk-Formation; paleoatmosphere-; carbon^lioxide; stable-isotopes; red-beds; Eastern-U.S.«; United-States; central-Pennsylvania; soils-; clayston.e-; atmospheric-pressure;; fluvial-environment; en.viron.men-; deltaic-environment:

T1: **Influence** of deep-sea **benthic** processes **on** atmospheric CO2.

AU: Sundquist-E-T

SO: Mathematical-and-Physical-Sciences. 331. (1616). p. 155-165. YR: 1990

BE: geochemis-try-; geochemical-cycle; carbon-; atmosphere-; sediments-; marine-sediments; diagenesi.s-; carbon-dioxide; deep-sea-environment;; environment-; processes-; sea-water; solution-; **carbonate-sediments**; buffers-; **models**-

T1: Calcium carbonate: preservation In. the ocean.

AU: Emerson-S-R; Archer-D

SO: Mathematical-and-Physical-Sciences. 331. (1616). p. 29-40.. YR: 1990

DE: Indian-Ocean; oceanography-; sediments-; marine-sediments; geochemistry-; Atlantic-Ocean; carbon-; sea-water; calcium-carbonate.; sediment-water-interface; preservation-; degradation-; solution-; saturation-; organic-materials; deep-sea-environment; environment-; organic-carbon; sedimentary-petrology; processes-; models-

T1: **Geochemical differences between subtropical (Ordoviciait), cool-temperate (Recent and Pleistocene) and subpolar carbonate, Tasmania, Australia..**

AU: Prasada-Rao-C

SO: Carbonates-and-Evaporites. 6. (1). p. 82-106.. YR: 1991

DE: Tasmania-;** sedimentary-petrology; sedimentary-rocks; carbonate-rocks; environment-; geochemistry-; oxygen-; isotopes-; O-18; carbon-; C-13; Australia-; Australasia-; Permian-; Pleistocene-; Quaternary-; **Holocene**-; temperate-environment; subpolar-environment.; subtropical-environment; Ordovician-; classification-; stable-isotopes ; trace-elements

T1: **Chemical and isotopic evolution of fluids** in the active Long Valley hydrothermal system.,

AU: Peterson-Maria-L; White-Art-F

SO: 1989 annual meeting,, Abstracts-with-Programs-Geolpgical-Society-of-America.. 21. (6). p. A85 YR: 1989

- DE: California-; geochemistry-; isotopes-; Pacific-Coast; Western-Ö.S.; United-States; evolution-; Long-Valley-Caldera; topography-; hydrology-; hydrogen-; D/H-; stable-isotopes; deuterium-; oxygen-; O-18/O-16; rainfall-; seasonal-variations; tuff-; pyroclastics-; volcanic-rocks; carbon-; C-13/C-12; carbonate-rocks; geologic-thermometry; temperature-; pH-; kinetics-; sulfates-; sulfides-
- TI: delta (18)O and delta (13)C stable Isotope geochemistry of dolomitized defrital calcites of the Los Jvionegros Group, southeastern Ebro Basin.» Spain.
- AU: Peterson-Jonathan-D
- SO: AAPG-Butietie. 74., (5). p. 739-740 Y.R: 1990
- DE: Spain-; sedimentary-petrology; diagenesis-; geochemistry-; isotopes-; Iberian-Peninsula; Southern-Europe; Europe-; oxygen-; O-18/O-16; stable-Isotopes; carbon-; C-13/C-12; dolomitization-; calcite-; carbonates-; Los-Monegros-Group; Ebro-Basin; lacustrine-environment; environment-; limestone-; carbonate-rocks; lithocalcarenite-; paleogeography-; pore-water
- TI: Petroleum potential of the Upper Ordovician Maquoketa Group in Illinois; a coordinated geological and geochemical study,
- AU: Crockett-Joan-E; Knige-Michael-A; Oltz-Donald-F
- SO: AAPG-Bulletin. 74. (5). p. 636 YR: 1990
- DE: Illinois-; economic-geology; petroleum-; Maquoketa-Formation; New-Albany-Shale; Midwest-; United-States; possibilities-; Upper-Ordovician; Ordovician-; geochemistry-; shale-; clastic-rocks; carbonate-rocks; source-rocks; lithosratigraphy-; Rock-Eval; pyrolysis-; maturity-; pristane-; alkanes-; aliphatic-hydrocarbons; hydrocarbons-; organic-materials-; phytane-; steroids-; isomers-; lithofacies-; sandstone-; migration-; stratigraphic-traps-; traps-; Cottage-Grove-Fault
- TI: Pakoclimatic controls on stable oxygen and carbon isotopes in caliche of the: Abo Formation (Penman), south-central New Mexico, U.S.A,
- AU: Mack-Creg-H; Cole-David-R; Giordano-Thomas-H ; Schaal-William-C; Barcelos-Jose-H
- SO: Journal-of-Sedimentary-Petrology. 61. (4). p. 458-472. YR: 1991
- DE: New-Mexico; stratigraphy-; Permian-; paleoclimatology-; Isotopes-; sedimentary-rocks; caliche-; carbonate-rocks; oxygen-; O-18/O-16; carbon-; C-13/C-12; sedimentation-; deposition-; environment-; Abo-Formation; Southwestern-U.S.; United-States; stable-isotopes; south-central-New-Mexico
- TI: Isotopes in. dimatological studies.,
- AU: Rozanski-Kaziraez; Gonfanti-Roberto
- SO: International-Atonile-Energy-Agency-Bulletin 32 (4) B 9-IS YR: 1990
- DE: isotopes-; analysis-; climate-- paleoclimatology-; indicators-; atmosphere-; research-; meteorology-; techniques-; ocean-circulation; marine-environment; environment-; ice-caps; terrestrial-environment-polar-environment; changes- ; marine-sediments ; lake-sediments ; ground-water; calcium-carbonate; circulation-; data-bases; models-; precipitation-; geochemistry-
- TI: Carbonate minerals in glacial sediments; geochemical ciues to palaeoenvironment.
- AU: Fairchiid-lan-J; Spiro-Bamch
- SO: Geological-Society-Special-Publlications,. .53. p 201-?16, YR- 1990
- DE: sediments-; carbonate-sediments; glaciomarine-environment; minerals-; carbonates-; occurrence-; sedimentation-; transport-; glacial-transport-; environment-; paleoenvironment-; Quaternary-; chemostratigraphy-; geochemistry-; IGCP-; Proterozoic-; upper-Precambrian; Precambrian-; recrystallization-
- TI: Events leading to global phosphogenesis around the Proterozoic/Cambrian boundary.
- AU: Donnelly-T-H; Shergold-J-B; Southgate-P-N; Barnes-C-J
- SO: Geological-Society-Special-Publlications. 52. p. 273-287 YR- 1990
- DE: diagenesis-; processes-; phosphatization-; sedimentation-; environment-; anaerobic-environment; isotopes-; ratios-; stable-isotopes; strontium-; Sr-87/Sr-86; carbon-; C-13/C-12; global-; upper-Proterozoic; Proterozoic-; Lower-Cambrian; Cambrian-; boundary-; alkaline-earth-metals; metals-; marine-environment; IGCP-; organic-materials; carbonate-rocks; geochemistry-; phosphorus-
- TI: Ptecambridge/C¹³isotopic boundary problem; carbon isotope correlations for Vendian and Tommotian time between Siberia and Morocco.
- AU: Magaritz-Mordeckai; Kiischvink-Joseph-L; Latham-Andrew-J; Zhuravlev-A-Yu; Rozanov-A-Yu
- SO: Geology-(Boulder). 19. (8). p. 847-850. YR: 1991
- DE: USSR-; stratigraphy-; Paleoproterozoic-; Morocco-; Cambrian-; isotopes-; carbon-; C-13/C-12; sedimentary-rocks; carbonate-rocks; geochemistry-; Siberia-; North-Africa; Africa-; upper-Precambrian ; Precambrian-; Vendian-; Tommotian-; Lower-Cambrian ; boundary-; correlation-; chemostratigraphy-; stable-isotopes ; fluctuations-; cycles-; Anti-Atlas; Siberian-Platform-sections-; IGCP-
- TI: Oxygen-isotope composition of diagenetic calcite in organic-rich rocks; evidence for (18)O depletion in marine anaerobic pore water.
- AU: Sass-Eytan; Bein-Amos; Almogi-Labin-Ahuva
- SO: Geology-(Boulder). 19. (8). p. 839-842.
- YR: 1991
- DE: Israel-; geochemistry-; isotopes-; oxygen-; 0-38/O-16; diagenesis-; sedimentary-rocks; carbonate-rocks; Middle-East; Asia-; stable-isotopes; calcite-; carbonates-; organic-materials; marine-environment; environment-; pore-water; anaerobic-environment; Upper-Cretaceous; Cretaceous- ; SEM-data; foraminifers- ; microfossils-; paleo-oceanography; bicarbonate-Ion
- TI: Geobemical studies of subsurface carbonate rocks.
- AU: Erickson-R-L; Erickson-M-8; Mosier-E-L; Chazin-Barbara
- OS: U. S. Geol. Surv., United-States; U. S. Geol. Surv., United-States
- SO: Geological-Survey-Bulletin. p. 51-52. YR: 1991
- DE: Missouri-; geochemistry-; carbonate-rocks; sedimentary-rocks; surveys-; Polk-County-Missouri; Greene-County-Missouri; Dallas-County-Missouri; Laclede-County-Missouri; Webster-County-Missouri; Wright-County-Missouri; USGS-; Midwest-; United-States; southwestern-Missouri; Springfield-Quadrangle; cores-
- TI: Determination of carbonate carbon in geologic materials: by coulometric titration.
- AU: Brandt-Elai-ne-L; Aroscauge-Philip-J; Papp-Clara-S-E
- SO: Geological-Survey, p. 68-72, YR: 1990
- DE: chemical-analysis; techniques-; sample-preparation; carbon-; analysis-; USGS-; titration-; coulometry-; carbonates-
- TI: Carbon and oxygen isotope trends of Precambrian-Cambrian carbonates from Lesser Himalaya» India.
- AU: Tewari-Vinod-C
- OS: Wadia Inst. Himalayan Geol., Dehra Dun, India YR: 1990
- CN: Himalayan geology seminar, Dehra Dun, April 4-7, 1990
- DE: India-; geochemistry-; isotopes-; sedimentary-rocks; carbonate-rocks; ^ Lesser-Himalayas; Indian-Peninsula; Asia-; Precambrian-; Cambrian-; Deoban-Formation; Riphean-; upper-Proterozoic; Proterozoic-; Vendian-; Krol-Formation; C-13/C-12; stable-isotopes' carbon-; ratios-; oxygen-; O-18/O-16; Tommotian-; Lower-Cambrian'

variations-; sedimentation-; evolution-; cyclic-processes; atmosphere-; oceanography-

TI: Characterization of tar from a carbonate reservoir in Saudi Arabia; Part I., Chemical aspect.

AU: Harouaka-A-S; Asar-H-K; Al-Arfaj-A-A; Al-Husaini-A-H; Nofid-W-AYR: 1991

DE: Saudi-Arabia; geochemistry-; organic-materials; engineering-geology; petroleum-engineering; reservoir-rocks; chemical-analysis-; methods-; chromatography-; Arabian-Peninsula; Asia-; carbonate-rocks; characterization-; tar-; sampling-; thermal-analysis; X-ray-analysis

TI: The influence of limestone stability on the interpretation of geochemical processes occurring in the saltwater-freshwater mixing zone.

AU: Wicks-Caiol-M; Heiman-Janet-S; Randazzo-Anthony-F; Jee-Jonathan-L

SO: Abstracts-with-Promgrams-Geological-Society-of-America. 22. (7). p. 63 YR: 1990

DE: Florida-; hydrogeology-; ground-water; Horidan-Aquifer; Southeastern-U.S.; Eastern- U.S.; United-States; Central-Florida; west-central-Florida; limestone-; carbonate-cocks; aquifers-; geochemistry-; hydrogeochemistry-; salt-water; fresh-water; solubility-

TI: Radium isotopes» alkaline earth diagenesis, and age determination of travertine from Mammoth Hot Springs, Wyoming» U.S.A.

AU: Sturchio-Neil-C

SO: Applied-Geochemistry. 5. (5-6). p. 631-640. YR: 1990

DE: Wyoming-; geochemistry-; isotopes-; sedimentary-rocks; carbonate-rocks; travertine-; radium-; Ra-228/Ra-226; Park-County-Wyoming; Mammoth-Hot-Springs; Western-U.S.; United-States; Yellowstone-National-Park; alkaline-earth-metals; metals-; radioactive-isotopes; diagenesis-; sedimentary-petrology; absolute-age; Quaternary-

TI: Manganese contents of some rocks of Silurian, and Devonian ages in Northwest Virginia»

AU: Cox-Leslie-J

OS: U. S. Geol Surv', United-States; U. S. Geol. Surv., United-States

SO: Geological-Survey-Bulletin. p. B1-B16. YR: 1991

DE: Virginia-; geochemistry-; trace-elements; economic-geology; manganese-ores; mineral-deposits; genesis-; supergene-processes; sedimentary-rocks; manganese-; carbonate-rocks; Shenandoah-County-Virginia; Frederick-County-Virginia; Rockingham-County-Virginia; Helderberg-Group; USGS-; Southeastern-U.S.; Eastern-US-; United-States; northwestern-Virginia; Silurian-; Devonian-; lower-Paleozoic; Paleozoic-; metal-ores; metals-; sedimentation-; marine-environment; environment-; shallow-water-environment; mineral-deposits, -genesis

TI: Manganese contents of some lower Paleozoic carbonate rocks of Virginia.

AU: Force-Eric-R

SO: Geological-Survey-Bulletin. p. A1-A.9. YR: 1991

DE: Virginia-; economic-geology; manganese-ores; sedimentary-rocks; geochemistry-; manganese-; carbonate-rocks; mineral-deposits; genesis-; supergene-processes; Clarke-County-Virginia; Shenandoah-County-Virginia; Giles-County-Virginia; Buchanan-County-Virginia; Montgomery-County-Virginia; Grayson-County-Virginia; Carroll-County-Virginia; Botetourt-County-Virginia; Washington-County-Maryland; Shady-Dolomite; Knox-Group; USGS-; Southeastern-U.S.; Eastern-U.S.; United-States; western-Virginia; Maryland-; northwestern-Maryland; metals-; lower-Paleozoic; Paleozoic-; mineral-deposits, -genesis; metal-ores; marine-environment; environment-; shallow-water-environment; geochemical-controls; sedimentation-; hydrogeological-controls

TI: Manganese contents of some sedimentary rocks of Paleozoic age in Virginia.

AU: Force-Eric-R; Cox-Leslie-J

SO: Geological-Survey-Bulletin. 25 p. YR: 1991

DE: Virginia-; geochemistry-; manganese-; carbonate-rocks; sedimentary-rocks; Shady-Dolomite; Knox-Group; Oriskany-Sandstone; Helderberg-Group; USGS; Southeastern-U.S.; Eastern-U.S.; United-States; metals-; Paleozoic-; manganese-oxides; oxides-; manganese-ores; metal-ores; Appalachians-; North-America

TI: Devonian dolomites from the Holy Cross Mts.» Poland; a new concept of the origin of massive dolomites based on pétrographie and isotopic evidence.

AU: Migaszewski-Zdzislaw-M

SO: Journal-of-Geology. 99. (2). p. 171-187. YR: 1991

DE: Poland-; sedimentary-petrology; sedimentary-rocks; carbonate-rocks; dolostone-; isotopes-; carbon-; C-13/C-12; oxygen-; O-18/O-16; diagenesis-; dolomitization-; evolution-; Central-Europe; Europe-; Swiety-Krzyz-Mountains; genesis-; petrography-; Upper-Devonian; Devonian-; clay-mineralogy; pyrite-; sulfides-; stable-isotopes

TI: Oceanic ferromanganese geochemistry..

AU: Ancirev-Sergei-J (Andreyev, Sergey I.)

OS: VNIIQkeangeoL, Leningrad, USSR

SO: AAFG-Bulletin, 74. (6). p. 958 YR: 1990

DE: nodules-; ferromanganese-composition-; geochemistry-; classification-; metals-; carbonate-compensation-depth; diagenesis-; sedimentary-processes; hydrothermal-processes

TI: A fluid inclusion and stable isotope study of synmetamorphic copper ore formation at Mount Isa, Australia reply.

AU: Heinrich-Christoph-A; Andrew-Anita-S; Wilkins-Ronald-W-T; Patterson-David-J

SO: Economic-Geology-and-the-Bulletin-of-the-Society-of-Economic-Geologists. 86. (1). p. 206-207. YR: 1991

DE: Queensland-; geochemistry-; isotopes-; fluid-inclusions; P-T-conditions; greenschist-facies; copper-ores; stable-isotopes; carbon-; C-13/C-12; oxygen-; O-18/O-16; hydrogen-; D/H-; mineral-deposits; genesis-; metamorphic-processes; deuterium-; ore-forming-fluids; Australia-; Australasia-; metal-ores; economic-geology Mount-Isa; inclusions-; mineral-deposits »genesis; deformation-; breccia-; clastic-rocks; dolostone-; carbonate-rocks; zoning-; geologic-thermometry; greenstone-; schists-; paleosalinity-- alteration-; Urquhart-Shale; pH-; cooling-; mineral-assemblages; crystallization-; calcium-chloride; homogenization-

TI: Geochemical evidence supporting T. C. Chamberlin's theory of glaciation.

AU: Raymo-M-E

SO: Geology-(Boulder). 19. (4). p 344-347. YR: 1991

DE: biography-; general-; Chamberlin-; T.-C; glacial-geology; glaciation-; causes-; atmosphere-; geochemistry-; carbon-dioxide; weathering-; chemical-weathering; effects-; strontium-; isotopes-; Sr-87/Sr-86; sedimentary-rocks; carbonate-rocks; Phanerozoic-; stratigraphy-; paleoclimatology-; global-; Chamberlin-T.-C, history-; ancient-ice-ages; degassing-; composition-; paleoatmosphere-; orogeny-; rates-; silicates-; alkali-earth-metals; metals-; stable-isotopes; paleo-oceanography; erosion-

TI: Manganese carbonate bands as *sin* indicator of hemipelagic sedimentary environments.

AU: Sugisaki-Ryuichi; Sugitani-Kenichiro; Adachi-Mamoru

SO: Journal-of-Geology. 99. (1). p. 23-40. YR: 1991

DE: Japan-; geochemistry-; manganese-; sedimentary-rocks; sedimentation-; environment-; hemipelagic-environment-; minerals-; carbonates-; rhodochrosite-; isotopes-; oxygen-; O-18/O-16; carbon-; C-13/C-12; metals-; banded-materials; carbon-dioxide; chert-; chemically-precipitated-rocks; Paleozoic-; Mesozoic-; Holocene-; Quaternary-; geochemical-indicators; Far-East; Asia-; Honshu-; Mino-Belt; stable-isotopes ; geochemical-profiles

TI: Subduction and accretion of the Permanente Terrane near¹ San Francisco, California.

AU: Larue-D-K; Barnes-I; Sedlock-R-L

SO: Tectonics.. 8. (2). p. 221-235.. YR: 1989

DE: California-; tectonophysics-; plate-tectonics; San-Francisco-County-California; Franciscan-Formation; Calera-Limestone; Pacific-Coast; Western-U.,S.; United-States; San-Francisco-California; Pennantene-Terrane; structural-geology; tectonics-; limestone-; carbonate-rocks; subduction-; geochemistry-; "faults-; evolution-; faciès-; deformation-; greenstone-; schists-

TI: Carbon Isotope variations in Cambrian-Proterozoic rocks; a case for secular **global trend**.

AU: Banerjee-D-M

SO¹: Developments-in-Prccambrian-Geology.. 8. p., 453-470. YR: 1990

DE: Asia-; geochemistry-; isotopes-; carbon-; C-13/C-12; sedimentary-rocks; carbonate-rocks; Lower-Cambrian; Cambrian-; Proterozoic-; upper-Precambrian; Precambrian-; stable-isotopes; India-; Indian-Peninsula; Pakistan-; Mongolia-; Far-East; variations-; ratios-

TI: Geochemistry of Precambrian carbonates; 3-shelf seas and non-marine environments of the Arcean*

AU: Veizer-Jan; Clayton-Robert-N; Hin-ton~R-W; von-Brunn-Victor;

Mason-T-R; Buck-S-G; Hoefs-Jochen

SO¹: Geochimica~et-Cosmochimica-Acta. 54. (10). p. 2717-2729. YR: 1990

DE: South-Africa; geochemistry-; isotopes-; Western-Australia; sedimentary-rocks; stable-isotopes; sea-water; carbonate-rocks; sediments-; carbonate-sediments; strontium-; Sr-87/Sr-86; oxygen-; O-1,8/O-16; carbon-; C-13/C-12; Precambrian-; Archean-; shelf-environment; environment-; Southern-Africa; Africa-; Australia-; Australasia-; Pongola-Supergroup; Hameisley-Group; alkaline-earth-metals; mélais-; tectonics-; marine-sediments; playas-; dolostone-; chemical-composition; lacustrine-environment; Vintersdorp-Supergroup; Fortescue-Group; trace-elements; iron-; manganese-

TI: Ec.log.itk metamorphism in carbonate rocks; the example of impure: marbles from, the Sesia-Lanzo Zone, Italian Western Alps..

AU: Castelli-D

SO: Journal-of-Metamorphic-Geology. 9., (1). p. 61-77. YR: 1991

DE: Alps-; petrology-; metamorphism-; Italy-; P-T-conditions; high-pressure; metamorphic-rocks; faciès-; eclogite-faciès; Europe-; Southern-Europe; carbonate-rocks; marbles-; Sesia-Lanzo-Zone; Western-Alps; geochemistry-; electron-probe-data-; absorption-; X-ray-specra; chemical-composition; IGCP-

TI: Glacial to Holocene changes; in carbonate and clay sedimentation in the Equatorial Pacific Ocean estimated from thorium 230 profiles-.

AU: Yang-Yong-Liang; Eiderfield-Henry; Ivanovich-Miro

SO: Paleoceanography. 5. (5), p. 789-809. YE: 1990

DE: Pacific-Ocean; stratigraphy-; Quaternary-; thorium-; isotopes-; Th-230; sedimentation-; sedimentation-rates; deep-sea-sedimentation; geochemistry-; processes-; solution-; sediments-; marine-sediments; Equatorial-Pacific; actinides-; metals-; radioactive-isotopes; carbonate-sediments; glaciomarine-environment; environment-; postglacial-environment; marine-environment; geochemical-indicators; upper-Pleistocene; Pleistocene-; Holocene-; geochemical-profiles; paleo-oceanography; clay-; clastic-sediment's

TI: Tracers of ocean paleoproductivity and paleochemistry; an introduction..

AU: Elderfield-Henry

SO: Paleoceanography. 5. (5). p. 711-718. YR: 1990

DE: sediments-; marine-sediments; geochemistry-; paleoecology-; indicators-; mari.n.e.-envi.ronment; productivity-; environment-; geochemical-indicators; cadmium-; metals-; barium-; alkaline-earth-

metals; calcium-; ratios-; paleo-oceanography; radioactive-isotopes; isotopes-; geochemical-profiles; carbonate-sediments; tracers-

TI: Isotopic studies of calcite, pyrite, and wood from glacial deposits in the Beardmore Glacier area» Transantarctic Mountains.

AU: Hagen-Erik-H; Fauie-Gunter; Jones-Lois-M

SO: • Antan^c-Journal-of-the-United-States. 24. (5). p. 67-68, YR: 1989

DE: glacial-geology; glacial-features; debris-; absolute-age; dates-; sediments-; Antarctica-; geochronology-; Paleozoic-; isotopes-; analysis-; sulfur-; S-34; Beardmore-Glacier; Polar-regions; Transantactic-Mountains; C-13; stable-isotopes; carbon-; O-18; oxygen-; Sr-87/Sr-86; alkaline-earth-metals; metals-; strontium-; glacial-sedimentation; glacial-environment; environment-; limestone-; carbonate-rocks; pyrite-; sulfides-; wood-; Shackleton-Limestone; Sirius-Fbrmation; East-Antarctica

TI: Primary and diagenetic controls of isotopic compositions of iron-formation carbonates.

AU: Kaufman-Alan-J; Hayes-J-M; Klein-C

SO: Geochimica~et-Cosmochimica-Acta.. .54, (12).. p.. 3461-3473.

YR: 1990

DE: Western-Australia; geochemistry-; sedimentary-rocks; diagenesis-; effects-; carbonate-rocks; isotopes-; ratios-; carbon-; C-13/C-12; oxygen-; Q'-18/O-16; iron-formations; chemically-precipitated-rocks; lower-Proterozoic; Proterozoic-; upper-Precambrian; Precambrian-; Dales-Gorge-Member; Brockman-Iron-Formation; Australia-; Australasia-; Hamersley-Group; stable-isotopes

TI: Geochemistry of sedimentary carbonates.

AU: Morse-John-W; Mackenzie-njired-T

SO: Developments-in-Sedimentology. 48. 707' p. YR: 1990

DE: sedimentary-rocks; carbonate-rocks; geochemistry-; mineral-composition; reactions-; carbonates-; calcium-carbonate; diagenesis-; marine-environment; environment-; early-diagenesis

TI: (234>U - (238)ü - (230)Th - (232)Th systematics in saline groundwaters from central Missouri,

AU: Banner-Jay-L; Wasserburg-G-J; Chen-James-H; Moore-Clyde-H

SO: Earth-and-Planetary-Science-Letters. 101. (2-4). p.. 296-312. YR: .1990

DE: Missouri-; hydrogeology-; ground-water-; geochemistry-; radioactive-isotopes; isotopes-; uranium-; U-238/U-234; thorium-; Th-232/Th-230; Midwest-; United-States; central-Missouri; salt-water; salinity-; artesian-waters; springs-; Mississippian-; Carboniferous-; Ordovician-; sandstone-; clastic-rocks; carbonate-rocks; aquifers-; hydrochemistry-; actinides-; metals-; radioactive-decay; brines-; pollution-

TI: Relationships between organic matter and metalliferous deposits in lower Palaeozoic carbonate formations in China.

AU: Jia-R; Liu-D; Fu-J

SO: Special-Publication-of-the-International-Association-of-Sedimentologists, (11). p. 193-201. YR: 1990

DE: China-; economic-geology; metal-ores; mineral-deposits; genesis-; controls-; geochemical-controls; Far-East; Asia-; carbonate-rocks; upper-Paleozoic; Paleozoic-; organic-materials; Southern-China; mineral-depositsgenesis; trace-elements; interpretation-; migration-of-elements; asphalt-; bitumens-; IGCP-

TI: Stable isotopic and trace elemental study of diagenetic styles in adjacent transgressiv-regressive (T-R) units.. Middle' Devonian Cedar Valley Group.

AU: Plocher-O-W; Ludvigson-G-A; Gonzalez-L-A

SO: Abstracts-vnth-Programs-Geological-Society-of-America. 22. (5), p. 42YR: 1990

DE: Iowa-; stratigraphy-; Devonian-; oxygen-; isotopes-; G-1.8/0-16; carbon-; C-13/C-12; sedimentary-rocks; carbonate-rocks; Invertebrates-; geochemistry-; diagenesis-; cementation-; geochemistry-; trace-elements; Cedar-Valley-Formation; Coralville-Member; Littleton-Member; Midwest-; United-States; transgression-; regression-; Givetian-; Middle-Devonian; petrography-

TI: Anatomy of a Middle **Ordovician** carbon isotope excursion; preliminary carbon and oxygen **isotopic** data from limestone components in the **Decorah** Formation, Galena Group, eastern Iowa.

AU: Ludvigson-G-A; Witzke-Brian-J; Lohmann-K-C; Jacobson-S-J
SO: Abstracts-with-Programs-Geological-Society-of-America.. 22. (5). p. 39 YR: 1990

DE: Iowa-; geochemistry-; isotopes-; carbon-; C-13/C-12; oxygen-; O-18/O-16; sedimentary-rocks; limestone-; invertebrates-; geochemistry-; **Decorah-Shale**; eastern-Iowa; Midwest-; United-States; **Galena-Dolomite**; carbonate-rocks

TI: Trace-element distribution across **calcite** veins; a tool for genetic interpretation.

AU: Erd-Yigal; Katz-Amkai
SO: Chemical-Geology. 85. (3-4). p. 361-367. YR: 1990

DE: Israel-; geochemistry-; trace-elements; sedimentary-rocks; carbonate-rocks; chalk-; crystal-chemistry; carbonates-; calcite-; Middle-East; Asia-; Judean-Desert; Menuha-Formation; Santonian-; Senonian-; Upper-Cretaceous; Cretaceous-; veins-; geochemical-profiles; dolomitization-; solution-; epigenetic-processes-; extension-; crystal-growth

TI: Stratigraphic shifts in carbon isotopes from Proterozoic stromatolitic carbonates (Mauritania); influences of primary mineralogy and diagenesis.

AU: Fairchild-I-J; Marshall-J-D; Berrand-Sarfati-J
SO: American-Journal-of-Science. 290-A.. p. 46-79. YR: 1990
DE: Mauritania-; stratigraphy-; Proterozoic-; carbon-; isotopes-; C-13/C-12; diagenesis-; materials-; stromatolites-; **sedimentary-structures**; **biogenic-structures**; sedimentary-rocks; carbonate-rocks; geochemistry-; IGCP-; West-Africa; Africa-; upper-Ptocabrian; Ptocabrian-; Atar-Group; stable-Isotopes; ultrastructure-; fractionation-; algae-; paleo-oceanography; **chemostratigraphy**-

TI: Carbon isotope shifts in Fennsylvanian seas.

AU: Magaritz-Mocdeckai; Holser-William-T
SO: American-Journal-of-Science. 290. (9). p. 977-994 YR: 1990
DE: New-Mexico-; geochemistry-; isotopes-; Pennsylvania-; stratigraphy-; paleo-oceanography; carbon-; C-13/C-12; sedimentary-rocks; carbonate-rocks; Nevada-; Carboniferous-; Southwestern-U.S.; United-States; southwestern-New-Mexico; Big-Hatchet-Peak; stable-isotopes; marine-environment; environment-; Western-U.S.; Arrow-Canyon; paleoatmosphere-; geochemical-profiles

TI: Extreme (13)C depletions in seawater-derived brines and their implications for the past geochemical carbon cycle.

AU: Lazar-Boaz; Erez-Jonathan
SO: Geology-CBoulder. 18. (12).. p. 1191-1194. YR: 1990
DE: sea-water; geochemistry-; carbon-; isotopes-; C-13/C-12; geochemical-cycle; ecology-; observations-; hypersaline-environment; Israel-; Red-Sea; stable-isotopes; brines-; salinity-; evaporites-; chemically-precipitated-rocks; carbonate-rocks; organic-materials; microbial-mats; sediments-; fractionation-; photosynthesis-; environment-; Middle-East; Asia-; Indian-Ocean; Gulf-of-Aqaba

TI: Paleomagnetism of the Cambrian Rover Dolomite and Fensylvanian Collings Ranch Conglomerate, southern Oklahoma; an early Paleozoic magnetization and nonpervasive remagnetization by weathering,

AU: Nick-Kevin-E; Ehnoe-R-Douglas
SO: Geological-Society-of-America-Bulletin. 102. (11). p. 1517-1525. YR: 1990

DE: Oklahoma-; stratigraphy-; Pennsylvanian-; Cambrian-; paleoma.gnetism-; Paleozoic-; isotopes-; sedimentary-rocks; stable-isotopes; oxygen-; G-18/0-16; carbon-; C-13/C-12; Carter-County-Oklahoma; Miuxay-County-Oklahoma; Collings-Ranch-Conglomerate; Royer-Dolomite; **Southwestern-U.S.**; United-States; **south-central-Oklahoma**; **Arbuckle-Mountains**; **Carboniferous**-; dolostone-; carbonate-rocks; conglomerate-; clastic-racks; weathering-; remagnetization-; dedolomitization-; karstification-; chérmical-remanent-magnetization; **lemanent-magnetization**; magnetization-; SEM-data; natural-remanent-magnetization; depositional-remanent-magnetization; pole-positions

TI: The influence of growth mechanism and surface structure on the partitioning of trace elements into minerals; examples from carbonate minerals.

AU: Reeder-Richard-J
SO: Chemical-Geology, 84. (1-4). p. 305 YR: 1990
DE: crystal-chemistry; carbonates-; calcite-; crystal-growth; partitioning-; diagenesis-; trace-elements; **crystal-structure**

TI: Dolomites; reconciling modern sample with the ancient record.

AU: McKenzie-J-A
OS: ETH Geol. Inst., Zurich, Switzerland; Univ. Aix-Marseille II, Lab. Geosci. Environ.» Marseilles, France
SO: Chemical-Geology., 84. (i-4), p. 190-191 YR: 1990
DE: diagenesis-; dolomitization-; sebkha-environment; environment-; dolomite-; carbonates-; dolostone-; carbonate-rocks

TI: Carbon and oxygen isotopic evidence for iron-formation-depositional conditions; Gneiss Flint Formation, Thunder Bay region, Ontario, Canada.

AU: Cairigan-W-J; Cameran-E-M
• SO: Abstracts-with-Programs-Geological-Society-of-America.. 21. (6). p. 24 YR: 1989
DE: Ontario-; stratigraphy-; Proterozoic-; Eastern-Canada; Canada-; upper-Precambrian; **Precambrian**-; isotopes-; carbon-; C-1.3/C-12; stable-Isotopes; oxygen-; O-18/O-16; kon-focmations; chemically-precipitated-rocks; deposition-; Gunflint-Formation; Thunder-Bay; limestone-; carbonate-rocks; dolostone-; siderite-; carbonates-; black-shale; clastic-rocks; chert-; precipitation-; organic-materials; **iron**-; **metals**-

TI: Evolution of mississippian valley-type (MVT) brines in Lower Ordovician carbonate rocks of the Appalachian Orogen.

AU: Kesler-Stephen-E
SO: Abstracts-with-Programs-Geological-Society-of-America.. 21. (6). p. 3 YR: 1989

DE: Appalachians-; economic-geology; base-metals; North-America;; evolution-; mississippi-valley-type; metal-ores; Lower-Ordovician; Ordovician-; carbonate-rocks; Appalachian-Phase; sphalerite-; stibifides-; dolomite-; carbonates-; **fluorite**-; fluorides-; halides-; barite-; sulfates-; paragenesis-; Isotopes-; strontium-; **alkaline-earth-metals**; metals-; **Sr-87/Sr-86**; stable-isotopes; brines-; fluid-inclusions; inclusions-; East-l'enne&see-Field; solubility-; Tennessee-; Southern-U.S.; United-States; Pennsylvania-; Eastern-U.S.; Newfoundland-; Eastern-Canada; Canada-; **ore-forming-fluids**; mineral-deposits-; genesis

TI: Bolomittization of Lower Cambrian carbonate platform during deep burial, Virginia Appalachians, USA.

AU: Barnaby-R-J; Read-J-F
• SO: Internat. Geologcal Congress,-Abs:tracts-Congres-Geologique-Internationale,-Résumés. 28. (1). p. 89-90. YR: 1989

DE: Virginia-; sedimentary-petrology; diagenesis-; Appalachians-; Shady-Dolomite; Southeastern-U.S.; Eastern-U.S.; United-States; North-America; stratigraphy-; Cambrian-; Lower-Cambrian; dolomitization-; carbonate-platforms; cathodoluminescence-; brecciation-; C-13/C-12; isotopes-; stable-isotopes; carbon-; O-18/O-16; oxygen-; strontium-; alkaline-earth-metals; metals-- Sr-87/Sr-86; iron-; manganese-; marine-environment; environment-; cement-; solution-; fluid-inclusions; Inclusions-

TI: The carbon- and oxygen-Isotope **record** of the **Precambrian-Cambrian** boundary interval in China and Iran and their correlation,

AU: Brasier-Martin-D; Magaritz-Moideckai; Corfield-Richard; Lno-Huolin; Wu-Xiche; Ouyang-Lin; Jiang-Zhiwen; Hamdi-B; He-Tinggui; Fraser-A-G

SO: Geological-Magazine. 127. (4). p. 319-332. YR: 1990

DE: China-; stratigraphy-; Cambrian-; Iran-; Proterozoic-; carbon-; isotopes-; C-13/C-12; oxygen-; O-18/O-16; invertebrates-; biostratigraphy-; USSR-; ratios-; interpretation-; Far-East; Asia-Middle-East; Yunnan-; Southwestern-China; Meishucun-; Szechwan-; Maidiping-; Vailiabad-; stiatotypes-; upper-Precambrian Precambrian-; Lower-Cambrian; upper-Proterozoic; correlation-; boundary-; diagenesis-; early-diagenesis; dolostone-; carbonate-rocks phosphate-rocks; chenually-precipitated-rocks; trilobites-; stable-isotopes; Morocco-; North-Africa; Africa-; Tommotian-; India-Indian-Peninsula; Siberia-; mollusks-; Russian-Republic

TI: Experimental study bearing on. **the absence of carbonate in mantle-derived senofiihs.**

AU: Canil-Dante

SO: Geology-CBoulder., 18. (10). p. 1.011401.3, YR: 1990

DE: magmas-; geochemistry-; dissociation-; processes-; mantle-; composition-; mineral-composition; Inclusions-; xenoliths-; **kimberlite**-; phase-equilibria; experimental-studies.; CaO-MgO-SiO₂-CO₂; P-T-conditions; high-pressure; peridotites-; ultramafies-; carbon-dioxide; synthesis-; decompression-; decarbonation-; carbon-

TI: **Dinantian** dolomites from East Fife; **hydrothermal** overpri.niti.ng of early **nmdng-zone** stable **isotopic** and. **Fe/Mn compositions**.

AU: Seal-A; Fallick-A-E

SO: Journal-of-the-Geological-Society-of-London. 147. (4). p. 623-638. YR: 1990

DE: Scotland-; sedimentary-petrology; sedimentary-rocks; carbonate-rocks; geochemistry-; isotopes-; oxygen-; O-18/O-16; carbon-; C-13/C-12; diagenesis-; dolomiti zati on-; Great-Britain; United-Kingdom; Western-Europe; Europe-; **Dinantian**-; Carboniferous-; limestone-; dolomite-; carbonates-; mixing-; stable-isotopes; iron-; metals-; manganese-; Saint-Monans-Syncline; Fife-; SEM-da.ta; cement-; petrography-; thin-sections; Nfid-Kinniny-Limestone; Chaiestown-Main-limestone; Saint-Monans-little-Limestone; Patfihead-Fau.lt; major-elements; calcite-; siderite-; Saint-Monans-Biecciated-limestone.; Saint-Monans-White-Iimestone

TI: **Intracrystalline** carbon and oxygen isotope **variations** in calcite revealed by laser **microsampling**.

AU: Dickson-J-A-D; Smalley-P-C; Raheim-A; Stlftoom-D-E

SO: Geology-CBoulder.). S8. (9). p. 809-81 !.. YR: 1990

DE: minerals-; carbonates-; calcite-; crystal-growth; spectroscopy-; laser-methods; techniques-; chemical-analysis; methods-; carbon-; isotopes-; C-13/C-12; oxygen-; O-18/O-16; Wales-; **Great-Britain**; United-Kingdom; Western-Europe; Europe-;; South-Wales; Aberciran-; Carboniferous-; limestone-; carbonate-rocks; vugs-; sample-preparation; stable-Isotopes; zoning-; chemical-composition-; precipitation-

TI: Glaciation and saline-freshwater mixing as a possible cause of cave formation in the eastern **Midcontinent** region of the United States; a conceptual model.

AU: Panno-Samuel-V; Bourcier-William-L

SO: Geology-(Boulder). 18. (8). p. 769-772. YR: 1990

DE: Illinois-; geomorphology-; solution-features; Michigan-; Appalachians-; caves-; glacial-geology; glaciation-; diagenesis-; effects-- karstification-- Midwest-- United-States- Illinois-Basin; Michigan-Basin; North-America; Appalachian-Basin.; Midcontinent-; genesis-; theoretical-models;; models-; karst-; salt-water; discharge-; fresh-water; ice-movement; aquifers-; limestone-; carbonate-rocks; ground-water; consolidation-; recharge-; mixing-; hydrogeochemistry-

11: 'Channelized fluid **flow through shear zones during fluid-enhanced** dynamic: «crystallization, Northern. **Apennines, Italy**.

AU: Carter-Karen-E; Dworkin-Stephen-I

SO: Geology-CBoulder). 18. (8). p. 720-723.. YR: 1990

DE: Italy-; structural-geology; defo.rmalion-; Apennines-; crystal-growth; carbonates-; calcite-; structural-analysis; preferred-orientation; faults-; effects-; shear-zones; field-studies;" recrystallization-; isotopes-; sedimentary-rocks; limestone-; strontium-; Sr-87/Sr-86; oxygen-; O-18/O-16; geochemistry-; trace-elements; Southern-Europe; Europe-; Northern-Apennines; liguria-; Triassic-; Portoro-Li mes tone; nappes-; fluid-phase; stable-isotopes; alkaline-earth-metals; mélais-; low-grade-metamorphism; metamorphism-; carbonate-rocks

TI: **Geochemical** and isotopic **constraints on the diagenetic history** of a massive' **stratal**, Late Cambrian (**Royer**) **dolomite**, Lower **ArfoudUe** Group» Slick Hills, **SW Oklahoma**, USA.

AU: Gao-Guoqiu

SO: Geochimica-et-Cosmochimica-Acta. 54. (7). p 1979-1989 YR-1990

DE: Oklahoma-; geochemistry-; trace-elements; diagenesis-; isotopes-; sedimentar]^rocks- ratios-; carbonate-rocks; dolostone-; oxygen-; O-18/O-16; strontium-; S.r-87/Sr-86; carbon-; C-13/C-12; Slick-Hills; Southwestern-U.S.; United-States; southwestern-Oklahoma.; Arbuckle-Group; Royer-Dolomite; Upper-Cambrian; Cambrian-; stable-isotopes; alkaline-earth-metals; metals-

TI: **Geochemical sampling and analysis:**

AU: Jones-D-G; Webb-P-C

TI: **Diagenesis** of carbonate cements in **Permo-Tr** lassie sandstones from the Iberian Range, Spain; evidence from **chemical and stable**: isotopes.

AU: Motad-S; Al-Aasm-Ihsan-Shakir; Ramseyer-Karl; Marfil-R; Aldahan-A-A

SO: Sedimentary-GeoJogy. 67. (3-4). p. 281-295. YR: 1990

DE: Spain-; stratigraphy-; Permian-; Tri.ass.i.c-; isotopes-; diagenesis-; cementation-; oxygen-; O-18/CM6; carbon-; C-B/C-12; sedimentary-rocks; clastic-rocks; sandstone-; Iberian-Peninsula; Southern-Europe; Europe-; Iberian-Mountains; cement-;; carbonates-; stable-Isotopes; dolomite-; calcite-; Guadalajara-Province; petrography-; geochemistry-

TI: Precipitation of dissolved carbonate species from **natural water for delta** (13)C analysis; a critical appraisal.

AU: Bishop-Philip-K.

SO: Chemical-Geology-Isotope-Geoscience-Section. 80. (3). p 251-259. YR: 1990

DE: chemical-analysis; techniques-; sample-preparation; carbon-; isotopes-; C-13/C-12; geochemistry-; processes-; precipitation-; stable-isotopes; natural-materials; water-; fractionation-; analysis-; experimental-studies; carbonates-

TI: Sedimentology and geochemistry of a **regional** dolostone; correlation of trace **elements** with **dolomite** fabric and texture.

AU: Shukla-Vijai

SO: Abstracts - Society - of — Economic — Paleontologists - and - Mineralogists,-Annual-Midyear-Meeting. 1986 (Vol. 3). p. 102 YR: 1986

DE: North-Dakota; geochemistry-; trace-elements; Intedake-Formation; Williston-Basin; Midwest-; United-States; diagenesis-; Silurian-; dolomitization-; dolostone-; carbonate-rocks; textures-

TI: A multkomponent carbonate-silicate model of the sedimentation process in the Precambrian oceans.

AU: Mef-nichuk-V-I

SO: Oceanology. 29. (2).. p. 203-207. YR: 1989

DE: Prcambrian-; stratigraphy-; paleo-oceanography; sedimentation-; processes-; marine-sedimentation; th.eoretical-stadi.es; mathematical-models; models-; silicates-; carbonates-; carbon-dioxide

TI: Successive pore fluid générations in a Lower Permian brine: aquifer, Palo Du.ro Basin, Texas. Panhandle, U.S.À.

AU: Hsher-R-Stephen; Posey-Harry-H; Kyle-J-Richard

SO: Applied-Geochemistry; 4. (5). p. 455-464. YR: 1989

DE: carbon-; Isotopes-; C-13/C-12; oxygen-; O-18/0-16; strontium-; Sr-87/Sr-86; water-; ratios-; Texas-; geochemistry-; sedimentary-rocks; carbonate-rocks; pore-water; Lo'wer-Permian; Permian-; brines-; Palo-Duro-Basin; Southwestern-U.S.; United-States; Panhandle-; alkaline-earth-metals; metals-; stable-isotopes

TI: Microlfthon alteration, associated with development of solution, cleavage in argillaceous limestone; textural, trace-elemental and. stable-isotopic observations.

AU: Bhagat-Snehal-S; Marshak-Stephen

SO: Journal-of-Structural-Geology. 12. (2). p. 165-175.. YR: 1990

DE: structural-analysis; interpretation-; cleavage-; oxygen-; isotopes-; O-18/0-16; New-York; structural-geology, carbon-; C-i3/C-12; sedimentary-rocks; limestone-; stron.tiu.m-; geochemistry-; manganese-; Greene-County-New-York; Albany-County-New-York; Ulster-County-New-York; Kalkberg-Limestone; Coeymans-Förmati.on; Manlius-Fonnation; Eastem-U.S.; United-States; eastern-New-York; carbonate-rocks; Hudson-River-valley; CMskill-New-York; Albany-New-York; Kingston-New-York; »crystallization-; petrofabri.es-; calcite-; carbonates-; slip-cleavage-; foliation-; micrplithons-; *trace-elements; statistical-analysis; metals-; Lower-Devonian; Devonian-; alkaline-earth-metals; stable-isotopes

TI: Stable Isotopic systematks of the Bushveld Complex II, Constraints on hydrothermal processes in layered intrusions.

AU: Schiffries-Cralg-M; Rye-Danny-M

SO: American-Journal-of-Science. 290. (3). p. 209-245. YR: 1990

DE: South-Africa; geochemistry-; isotopes-; intrusions-; layeed-intrusions; contact-metamorphism; metasomatism-; processes-; hydrothermal-alteration; hydrogen-; D/H-; carbon-; C-13/C-12; oxygen-; O-1.8-Ö-16; mineral-deposits; genesis-; metal-o.res; hydfohemal-processes; analysis-; stable-Isotopes; Southern-Africa; Africa-; Transvaal-; Bushveld-Complex; aureoles-; metamorphism-; hydrotheimal-conditions; deuterium-; mineral-deposits,-genesis; veins-; carbonate-rocks; igneous-rocks; ore-forming-fluids

TI: Geochemistry and sedimentology of a facies transition from limestone to iron-formation deposition in the early Proterozoic Transvaal Supergroup, Sooth Africa,

AU: KMn-Cornelis; Beukes-Nicolas-J

SO' : Economic - Geology - and - the - Bulletin - of - the - Society - of-Economic-Geologists.. 84. (7). p. 1733-1774., YR: 1989

DE: Sooth-Africa; economic-geology; iron-ores; mineral-deposits; genesis-; hydrothernnal-processes; sedimentary-petrology; sedimentary-rocks; chemically-precipitated-f ocks; iron-formations; Southern-Africa; Africa-; Transvaal-Supergroup; reconstruction-; deposition-; limestone-; carbonate-rocks; dolostone-; shale-; clastic-rocks; precipitation-; regression-; models-; Kaapvaal-Craton; organic-carbon-; organic-materials; transgression-; rare-earths; metals-; East-Pacfic-Rise; Atlantic-Ocean; mi.xlsng-; ore-fbrming-fluids; mineral-

deposits.-genesis; metal-ores; Kuruman-Iron-Formation; outcrops-; weathering-; alteration-; Danielskuil-; Kuruman-; Pomfret-Mine; as bes tos -deposit ts ; b oreh oles -

TI: Pétrographie and geochemical evidence for origin of paieospeieothems, New Mexico; Implications for the application of fluid inclusions to studies of diagenesis.

AU: Goldstein-Robert-H

SO: Journal-of-Sedimentary-Petrology. 60. (2). p. 282-292. YR: 1990

DE: New-Mexico; stratigraphy-; Mississippian-; isotopes-; sedimentary-rocks; ratios-; carbon-; C-13/C-12; oxygen-; O-18/0-16; fluid-Inclusions; geologic-thermometry; interpretation-; geochemistry-; trace-elements; diagenesis-; processes- carbonate-rocks; limestone-; Lake-Valley-Formation; Southwestern-U.S.; United-States; Carboniferous-; solution-features; paleokarst-; speleothems-; calcite-; carbonates-; stable-isotopes; inclusions-, paleosalinity-

TI: (13)C and (18)O coBiposJtions of carbonates from a cyclic carfoonate-evapoiti rock sequence; evidences for meteoric water input.

AU: Sheu-Der-Duen

SO: Chemical-Geology. 81.(1-2). p. 157-162. YR: 1990

DE: Texas-; geochemistry-; isotopes-; sedimentary-rocks; carbonate-rocks; sedimentation-; environment-; nearshore-environment; carbon-; C-13/C-12; oxygen-; Q-18/0-16; McKnight-Formation; Cretaceous-; Albian-; Lower-Cretaceous; southern-Texas; evaporites-; chemically-precipitated-rocks ; cyclic-processes ; stable-isotopes ; paleogeogra.pb.y-; .geochemical-indicators; marine-environment; fresh-water-environment; meteoric-water; subtidal-environment; intertidal-environment; rhythmic-bedding; planar-bedding-structures; sedimentary-stractares; Southwestern-U.S..; United-States

TI: Comparative study of the kinetics and mechanisms of dissolution of carbonate minerals.

AU: Chou-Lei; Garrels-Robert-M; Wollast-Roland

SO: Chemical-Geology. 78. (3-4). p. 269-282. YR: 1989

DE: geochemistry-; processes-; solution-; calcite-; carbonates-; aragonite-; magnesite-; dolomite-; experimental-studies; kinetics-; pH~; theonodynamic-properties; stoichiometry-

TI: Petrography, trace elements and oxygen and. carbon, isotopes of Gordon Group ca.rboea.tes; (Ordovician),, Florentine: Valley, Tasmania, Australia.

AU: Rao-C-Prasada

SO: Sedimentary-Geology. 66. (1-2). p. 83-97, YR: 1990

DE: Tasmania-; geochemistry-; trace-elements; sedimentary-rocks; carbonate-rocks; stratigraphy-; Ordovician-; diagenesis-; isotopes-; oxygen-;, O-18/Q-16; carbon-; C-13/01.2; Australia-; Australasia-; Florentine-Valley; Gordon-Limestone; petrography-; stable-isotopes; Arenigian-; Lower-Ordovician; Ashgillian-; Upper-Ordovician; strontium-; alkaline-earth-metals; metals-; sodium-; alkali-metals; manganese-; iron-; magnesium-; dolostone-; glacial-environment; environment-; Benjamin-Limestone; materials-; intertidal-environment; sxiptidal-environment; suftidal-environmenl; 'Casm'ons-Creek-IimestOne

TI: Did major changes in the stable-iso tope composition of Proterozoic seawater occur?.

AU: Burdett-J-W; Grotzinger-John-P; Arthur-M-A

SO: Geology-(Boulder).. 18. (3). p. 227-230. YR: 1990

DE: Northwest-Territories; geochemistry-; isotopes-; Canadian-Shield; Proterozoic-; stratigraphy-; paleo-oceanography; oxygen-; O-18/0-16; carbon-; C-13/C-12; sedimentary-rocks; carbonate-rocks; diagenesis-; Canada-; North-America; Rockwest-Fbrmation; upper-Precambran; Precambrian-; lower-Proterozoic; stable-isotopes; eary-diagenesis; dolomitization-; cementation-; oolite-; marine-environment; en vironment-

- TI: Origin of late **Precambrian** intrusive carbonates, Eastern Desert of Egypt and **Sudan**; C, O and. Sr **isotopic** evidence.
AU: Stern-Robert-J; Gwinn-Cynthia-J
SO: Precambrian-Researek 46.. (3).. p. 259-272., YR: 1990
DE: Egypt-; geochemistry-; sedimentary-rocks; carbonate-rocks; isotopes-; carbon-; C-I3/C-12; oxygen-; O-18/O-16; strontium-; Sr-87/Sr-86; North-Africa; Africa-; Sudan-; East-Africa; genesis-; upper-Precambrian; Precambrian-; intrusions-; Eastern-Desert; stable-isotopes; alkaline-eairth-metals; metals-; basement-; whole-rock.; Pan-African-Orogeny; mixing-; evolution-; continental-margin; melange-; X-ray-data
- TI: **Geochemistry** of drift over the **Precamhrian** Grenville Province» southeastern Ontario and southwestern Quebec.
AU: Kettles-I-M; Shilts-W-W
SO: Paper-Geological-Survey-of-Canada. p. 97-112..
YR: 1989
DE: Ontario-; geochemistry-; drift-; Quebec-; glacial-geology; glaciation-; glacial-transport; Eastern-Canada; Canada-; clastic-sediments; Precambrian-; Grenville-Province; southeastern-Ontario; southwestern-Qu.ebec; till-; Frontenac-Arch; overburden-; acid-rain; mineral-exploration; •trace-elements; minor-elements; weathering-; lithofacies-; copper-; metals-; chromium-; Ottawa-Valley; Gatineau-Valley; clay-; bedrock-; marbles-; outcrops-; glaciomarine-environment; environment-; boulder-trains; glacial-features; distribution-; zinc-; arsenic-; calcium-carbonate; histograms-; statistical-analysis
- TI: Changes in marine **isotopic** composition and the Late **Ordovidan** glaciation,
AU: Marshall-James-D; Middleton-Paul-D
SO: Journal-of-the-Geological-Society-of-London. 147.. (1). p. 1-4. YR: 1990
DE: Sweden-; stratigraphy-; Ordovician-; isotopes-; sedimentary-rocks; ratios-; carbonate-rocks; coquina-; carbon-; C-I3/C-12; oxygen-; O-18/O-16; geochemistry-; trace-elements; brachiopods-; biostratigraphy-; glaci.al-geology; ancient-ice-ages; paleoclimatology-; Scandina.via-; Western-Europe; Europe-; stable-isotopes; limestone-; Upper-Ordovician; Siljan-; central-Sweden; paleo-oceanography; Kullaberg-Limestone; Boda-Limestone; Dalama-; Hindella-; cathodoluminescence-
- TI: Carbon iso topic ratios of Silurian marine carbonates in the Michigan. **Basin**; a record of organic: **productivity?**.
AU: Cercone-K-R; Lohmann-K-C
SO: Abstra.cts-S'oci.ety-of-EcoMomic-Paleontologl.sts-and-Mineralogists,-Annnal-Midyear-Meeting. 3. p. 20' YR: 1986
DE: Michigan-; geochemistry-; carbon-; Michlgan-Basin; North-America; isotopes-; Silurian-; carbonate-rocks; marine-environment; environment-; ratios-; brachiopods-; cementation-; dia.gene.sis-; C-13/C-12; stable-isotopes; anaerobic-environment; bacteria-; fermentation-; organic-materials; Midwest-; United-States; omdation-; shelf-environment:
- TI: Gradients in. carbonate: **mineralogy**, **Biscayne** Bay» SE Florida; a reassessment of **XRD** analysis.
AU: Burton-Elizabeth-A
SO: Abstracts-Society-of-Economic-Paleontologists-and-Mineralogists,-Annual-Midyear-Meeting. 3. p. 16-17 YR: 1986
DE: Honda-; sedimentary-petrology; sediments-; Dade-Country-Florida; Southeastern-U.S»; Eastem-U.S.; United-States; Biscayne-Bay; carbonate-sediments; fresh-water-eriiyi.ronm.enit; environment-magnesium-; alkaline-earth-metals; metals-; calcite-; carbonates-aragonite-; X-ray-data; ratios-; solution-; Atlantic-Coastal-Plain North-America
- TI: Sedimentary cycling and the **Phanerozoic** carbonate mass distribution.
AU: Mackenzie-Fred-T
SO: Abstracts - of- Papers - American -Chemical-Society^National-Meeting. 198. p. GEOC 15 YR: 1989
DE: sedimentary-rocks; carbonate-rocks; geochemistry-; geochemical-cycle; carbon-; Triassic-; Phanerozoic-; uniformitarianism-; Devonian-; rates-; calcite>; carbonates-; dolomite-; ratios-; Cambrian-; Permian-; Quaternary-; Ordovician-; Carboniferous-; Silurian-; Jurassic-; Cretaceous-; Cenozoic-; oxygen-; concepts-
- TI: Global **Phanerozoic** **geochemical cycle** of carbon..
AU: Ronov-Alex-B
OS: Vernadsky lust., Moscow, USSR
SO: Abstracts-of-Papeas-American-Chemical-Society,-Natio.nal-Meering. 198. p. GEOC 13 YR: 1989
DE: geochemistry-; geochemical-cycle; carbon-; organic-carbon; organic-materials; carbonate-ion; oxygen-; sedimentary-rocks; carbon-dioxide; Phanerozoic-; paleoatmosphere-; evolution-; atmosphere-; volcanism-
- TI: Cartoon isotope fractionation between dissolved **carbonate** (**CO3(2-)**) and **CO2(g)** at 25 degrees and **40 degrees-C**
AU: Lesniak-P-M; Sakai-H
SO: Earth-and-Planetary-Science-Letters. 95. (3-4). p. 297-301. YR: 1989
DE: carbon-; isotopes-; C-13/C-12; stable-isotopes; fractionation-; carbon-dioxide; carbonate-ion; dissolved-materi.als; experimental-studies; open-systems; pH-
- TI: Geochemistry of some **Ordovidan** and **Devooiao** tri! obi te cuticles from North America.
AU: McAllister-John-E; Brand-Uwe
SO: Chemical-Geology. 78, (1>. p. 51-63.. YR: 1989
DE: Ontario-; paleontology-; Trilobita-; New-York; trilobites-; biochemistry-; Ordovician-; isotopes-; cuticles-; diagenesis-L geochemistry-; trace-elements; carbon-, C-13/C-12; oxygen-; O-18/O-16; sedimentary-rocks; Erie-County-New-York; Livingston-County-New-York; Ludlowville-Formation; Moscow-Formation;; Eastern-Canada; Canada-; Great-Lakes-region; North-America; Eastem-U.S.; United-States; west-central-New-York; Onondaga-limestone; Whitby-Formation; Cobourg-Formation; Verulam-Formation; southern-Ontario; Devonian-; minor-elements; Phacops-rana; Isoletus-gigas; calcite-; carbonates-; stable-isotopes; limestone-; carbonate-rocks; shale-; clastic-rocks
- TI: Late Proterozoic glacial carbonates in Northeast Spitsbergen; new insights into the carbonate-tillite association.
AU: FaircMSd-I-J; Hambray-MichaelS-J; Spiro-B; Jefferson-T-H
SO: Geological-Magazine. 126. (5). p. 469-490. YR: 1989
DE: Spitsbergen-; stratigraphy-; Proterozoic-; sedimentary-rocks; lithofacies-; isotopes-; carbonate-rocks; oxygen-; O-18/O-16; carbon-; C-13/C-12; sedimentation-; environment-; interprétation-; Svalbard-; Arctic-region; upper-Precambrian; Precambrian-; upper-Proterozoic; Pettovbreen-IVIember; Eldobreen-Fbmiation; stable-isotopes; glacial-environment; cathodoluminescence-; Wilsonbreen-Formation; glaciolacustrine-environment; paleoenvironment-; environmental-analysis; tillite-; clastic-rocks; petrography-
- TI: Application of geochemistry to **the stratigraphie** correlation of Appin and Argyll Group carbonate rocks from the **Dalradian** of northeast Scotland.
AU: Thomas-C-W
SO: Journal-of-the-GeoLogical-Society-of-London., 146.. (4). p. 631 - 647. YR: 1989
DE: Scotland-; geochemistry-; trace-elements; stratigraphy-; Cambrian-; Precambrian-; metamorphic-rocks; metasedimentary-rocks; Great-Britain; United-Kingdom; Western-Europe; Europe-; Dalradian-; Appin-Group; Argyll-Group; carbonate-rocks; northeastern-Scotland

TI: Trace element and isotope: geochemistry of zoned calcite cements, Lake Valley Formation (Mississippian, New Mexico); insights from water-rock interaction modelling.

AU: Meyers-Wilhelm-J

SO: Sedimentary-Geology., 65. (3-4). p. 355-370. YR: 1989

DE: New-Mexico; geochemistry-; trace-elements; diagenesis-; cementation-; calcite-; oxygen-; Isotopes-; O-18/O-16; carbon-; C-13/C-12; minerals-; ratios-; Lake-Valley-Formation; Southwestern-U.S.; United-States; carbonates-; cement-; stable-isotopes; crystal-zoning; Mississippian-; Carboniferous-; rock-water-Interface; models-; cathodoluminescence-

TI: Détermination of both chemical and stable isotope composition in milligramme-size carbonate samples.

AU: Coleman-Max-L; Walsh-J-Nick; Benraor-Richard-A

SO: Sedimentary-Geology. 65.. (3-4). p. 233-238. YR: 1989

DE: minerals-; carbonates-; chemical-composition; oxygen-; isotopes-; O-18/Q-16; carbon-; C-13/C-12; ratios-; stable-Isotopes; experimental-studies; inductively-coupled-plasma-methods

TI: High-resolution scanning proton microprobe studies of micron-scale trace element zoning in a secondary dolomite; implications for studies of redox behaviour in dolomites.

AU: Fraser-Donald-G; Feltham-David; Whiteman-Mark

SO: Sedimentary-Geology. 65. (3-4). p. 223-232. YR: 1989

DE: Italy-; geochemistry-; trace-elements; crystal-growth; carbonates-; dolomite-; minerals-; diagenesis-; cementation-; Southern-Europe; Europe-; Eh-; crystal-zoning; cement-; electron-probe-data; cathodoluminescence-; X-ray-data; Gargano-Feninsula

TI: The laser microprobe and its; application to the study of C and O isotopes in calcite and aragonite.

AU: Smalley-P-C; Snijhoorn-D-E; Raheim-A; Johansen-H; Dickson-J-A-D

SO: Sedimentary-Geology. 65. (3-4). p. 211-221, YR: 1989

DE: oxygen-; isotopes-; O-18/O-16; carbon-; C-13/C-12; diagenesis-; cementation-; calcite-; minerals-; ratios-; carbonates-; crystal-growth; analysis-; laser-methods; stable-isotopes; aragonite-; cement-; crystal-zoning

TI: Neomorphism and cementation in ancient deep-water limestones;, Cow Head, Group* (Cambro-Ordovician), western Newfoundland., Canada.

AU: Coniglio-M

SO: Sedimentary-Geology, 65. (1-2). p. 15-33. YR: 1989

DE: Newfoundland-; geochemistry-; trace-elements; diagenesis-; cementation-; limestone-; sedimentary-rocks-; carbonate-rocks; carbon-; isotopes-; C-B/C-12; oxygen-; O-18/O-16; Eastern-Canada; Canada-; sedimentary-petrology; deep-sea-environment; environment-; Cow-Head-Group; Cambrian-; Ordovician-; western-Newfoundland; stable-isotopes; cathodoluminescence-; crystallization-; calcite-; carbonates-; crystal-zoning; Humber-Annn-Allochthon; petrography-; SEM-data

TI: Active dissolution in modern shallow marine carbonate sediments; global implications?.

AU: Walter-Lynn-M; Burton-Elizabeth-A

SO: Abstracts-with-Programs-Geological-Society-of-America... 19. (7). p. 880 YR: 1987

DE: Florida-; oceanography-; sediments-; solution-; shallow-water-environment; environment-; marine-environment; carbonate-sediments; global-; pore-water; geochemistry-; Florida-Keys; Southeastern-U.S.; Eastem-U.S.; United-States; aragonite-; carbonates-; calcite-; cores-; carbonate-platforms; organic-materials; geochemical-cycle

TI: Th/U dating; of open carbonate systems.

AU: Hillaire-Marcel-C; Causse-C; Carro-O; Casanova-J; Ghaleb-B;

Goetz-C

SO: Chemical-Geology. 70. (1-2)., p. 127 YR: 1988

DE: absolute-age; dates-; carbonate-rocks; sedimentary-rocks; age-; caliche-; travertine-; stromatolites-; biogenic-structures; algae-; Th/U-; calcite-; carbonates-

TI: Tie use of the Th-230 and Ba as indicators of palaeoproductivity over a 380 kyr time scale; evidence from, the NW Arabian Sea.

AU: Shimmield-Graham-B; Price-N-B; Khan-A-A

SO: Chemical-Geology. 70.. (1-2). p. 112 YR: 1988

DE: Arabian-Sea; stratigraphy-; Quaternary-; thorium-; isotopes-; Th-230; barium-; geochemistry-; sediments-; northwestern-Arabian-Sea; actinides-; metals-; radioactive-isotopes; alkaline-earth-metals; Owen-Ridge; calcium-carbonate; paleoproductivity-; Indian-Ocean; paleo-oceanography

TI: Chemical and mineralogical effects of acid deposition on Shelburne Marble and Salem Limestone test samples placed at four NAPAP weather-monitoring sites.

AU: Ross-Malcolm- McGee-Elaine-S; Ross-Daphne-R

SO: American-Mineralogist. 74. (3-4). p. 367-383. YR: 1989

AB: Marble and limestone briquettes were placed at National Acid Precipitation Assessment Program (NAPAP) test sites in North Carolina, Washington, D.C., New Jersey, and New York to determine mineralogical changes, that might be attributed to acid deposition. Samples have been examined after exposures of 1 and 2 yr, and the most significant change is the development of a gypsum-rich "spot" on the sheltered side of the briquettes. X-ray and SEM analyses reveal that gypsum plus calcite is present within the "spot" area, but outside this area and on the upper surface of the briquettes, only calcite is detected. A model, based on the sequence of salts observed to crystallize from a -progressively more concentrated solution, is presented to explain the presence of the "spot" on the undersides of the briquettes. In the models, the CaCO₃ -saturated solutions filling the pore space in the stone continuously precipitate calcite during the drying period after the rain event; gypsum is precipitated only after evaporation is nearly complete. As evaporation proceeds, the solution, migrates by gravity to the lower surface of the briquette and the last residual liquid precipitates gypsum and produces, the gypsum-rich "spot". It is proposed that the most significant stone damage is due to salt: build up on. and within the stone rather than due to stone removal through dissolution.—Modified journal abstract.

DE: construction-materials; geochemistry-; weathering-; chemical-weathering-; building-stone; rock-mechanics; materials-; properties-; pollution-; effects-; atmosphere-; acid-rain-; hydrology-; atmospheric-precipitation-; Salem-Limestone; Shelburne-Marble; NAPAP-; Natl.-Acid-Precipitation-On-Assess.-Program; marbles-; limestone-; carbonate-rocks; limestone-deposits; marble-deposits; field-studies; sulfuric-acid; nitric-acid; SEM-data; salt-; evaporites-; chemically-precipitated-rocks; gypsum-; sulfates-; calcite-; carbonates-

TI: Stable isotopic (S,C,O) study of the Abbeytown Zn+Pb+Ag mine, Co. Sligo, Ireland.

AU: Hitzman-Mu.na.y-V; Recio-C; Caulfield-J-B-D; Boyce-A-J; FalMck-Anthony-E

SO: Abstracts-with-Programs-Geological-Society-of-America. 20. (7). p. 38 YR: 1988

DE: Ireland-; economic-geology; silver-ores; lead-zinc-deposits; Western-Europe; Europe-; metal-ores; pyrite-; sulfides-; precious-metals; geochemistry-; isotopes-; stable-isotopes; oxygen-; carbon-; sulfur-; Abbeytown-JVSine; Mississippian-; Carboniferous-; carbonate-rocks; dolomitization-; dedolomitization-; fluid-inclusions; inclusions-; sphalerite-; galena-; breccia-; clastic-rocks; S-34/S-32; C-13/C-12; O-18/O-16; Sligo-

TI: Discovery of a second Ordovician meteorite using chromite as a tracer...

AU: Nyström-Jan-Olav; Lindstrom-Maurits; Wickman-Frants-E

SO: Nature-(London), 336. (6199). p. 572-574. YR: 1988

DE: meteorites-; detection-; stony-meteorites; Sweden-; geochemistry-; diagenesis-; materials-; conodonts-; biostratigraphy-; Ordovician-; fossil-meteorites; chromite-; oxides-; geochemical-indicators; limestone-; carbonate-rocks; Scandinavia-; Western-Europe; Europe-; southern-Sweden-; Osterplana-; KinneJculle-; electron-probe-data; SEM-data; microfossUs-; metasomatism-

TI: Mixing-zone dolomites in the Golly Oolite, Lower Carboniferous, South Wales. >

AU: Searl-A

SO: Journal-of-the-Geological-Society-of-London. 145 (Part 6). p. 891-899.. YR: 1988

DE: Wales-; stratigraphy-; Carboniferous-; sedimentary-petrology; sedimentary-rocks; geochemistry-; isotopes-; carbonate-rocks-; limestone-; oxygen-; 0-18/0-16; carbon-; C-13/C-12; Great-Britain; United-Kingdom; Western-Europe; Europe-; Dinantian-; South-Wales; dolomitic-limestone; petrography-; Gully-Oolite; stable-isotopes

TI: Stable isotopes In. the back, reef facies of the Bonneterre and Davis formations (Cambrian),, MO; evidence: for a complex diagenetic history.

AU: Gregg-Jay-M; Shelton-Kevin-L

SO: Abstracts-with-Programs-Geological-Society-of-America. 20.. (7). p. 120 YR: 1988

DE: Missouri-; sedimentary-petrology; diagenesis- "Bonneterre-Formation; Davis-Formation; Midwest-; United-States; geochemistry-; isotopes-; Cambrian-; carbon-; oxygen-; limestone-; carbonate-rocks; dolostone-; dolomitization-; mississippi-valley-type; mineralization-; mudstone-; clastic-rocks; 0-18/O-16; stable-isotopes; C-13/C-12

TI: Kristalle als Geothermometer und-barometer.

AU: Paulisch-Feter

SO: Zentralblatt für Geologie und Paläontologie. Teil I. H.3.p. 181-344. YR: 1990

IA: German

De: *Jadeite*: Paragenesis, crystal structure and, color, orientation in rocks and experimental deformation, experiments on jadeite forming, jade as rough material for the art handwork, summary; *Amphibole*: Preferred orientation, of hornblendes, experimental hornblende - deformation, anisotropy of amphibolites, crystal structure of the hornblende and facies, aluminium, sodium, calcium, magnesium, iron, and titanium in hornblendes,, isotopes in hornblendes:, epitaxis, biopyriboles, hornblende reactions in nature, experimental forming of amphiboles;, technical syntheses, summary; *Chloritoid*: Natural paragenesis, with chloritoid, crystal structure: and polypyrs, orientation von chloritoid in rocks» experimental chloritoid-reactions, literature out of lands, summary; *Staurolite* Paragensis, crystal structure and epitaxis, orientation, experimental deformation, laboratory experiments: on the forming conditions, summary; *Titanite*: Paragensis, age, form, crystal structure, experimental deformation and orientation,, titanite-syntheses, titanites in tectonic, summary; *Corundum*: Paragensis, form, and epitaxis, structure, color, orientation,, corundum-syntheses with, different mineral pairs, technic,, rubles, world wide,, summary; *Talc*: Paragensis:, ore deposits, structure, laic-synthesis:, technic,, summary; *Pkologopitei* Natural paragenesis, crystal chemistry and polypyrs, isotopes and trace elements, fluid inclusions» epitaxis, orientation and experiments of deformation, conditions of experimental forming, weathering, technic, summary.
(Özcan DORA)

Özler / Abstracts

Candan Gökçeoglu, Hüsnü Aksoy, 1996, Landslide Susceptibility mapping of the slopes in the residual soils of the Mengen region (Turkey) iff deterministic stability analyses mud image processing tecniqites: .Engineering Geol.,44* 147-161,

Abstracts: The aim of present study is to prepare a landslide susceptibility map of a region of about 120 km²,, between Gokcesu and Pazarköy (around Mengen, NW Turkey) at approximately 10 km .norm of the North Anatolian Fault Zone, where frequent landslides occur,. For this purpose, mechanisms of the. lao.dsli.des were studied by two-dimensional stability analyses together with field, observations,, and, the parameters controlling; the: development of such slides, were identified. Field observations .indicated that die failures, generally developed within, the uncoD.soli.da.ted and/or semiconsolidated soil units in forms of .rotational, successive shallow landslides within the weathered zone in. Mengen, Çukurca and, Sazlar formations* Although consisting of residual soils., Capak and Gokdag formations do not exhibit landslides as the natural slopes formed on theses, do not exceed, the: critical slope angles.. Statistical evaluations and distribution of the landslides on. the topographical map showed that such parameters as cohesion, angle of internal friction» slope:, relative height» orientation of slopes;, proximity to drainage pattern, vegetation cover and proximity to major faults were the common features on the landslides. Digital images, were obtained to represent, all these parameters on gray scale on 'the SPOT image and, on the: digital elevation model (DEM) of the ,area using image processing techniques. Soil mechanics tests, were carried ont on 36 representative samples collected from different units, and, parameters, were determined for' two-dimensional stability analyses basing on "sensitivity approach" and for' 'the preparation, of digital shear' strength map. In order' to determine the critical slope angles values for 'the residual soils,, a series of sensitivity .analyses we « realized, by using two-dimensional deterministic slope stability analyses techniques for varying values of cohesion., angle of internal friction and slope height along with varying saturation conditions. According to the-results of the sensi.ti.vity analyses., the Mengen formation was found, to be most susceptible unit to landslides., covering about 33.5 % of 'the region studied, in terms of surface area.. The distribution of the critical slopes were determined, by superimposing the -critical slope values from sensitivity analyses on slope map of the study area., On the other hand, Iso-cohesion and iso-friction maps were produced by locating 'the values of Cohesion, and internal friction angles, in a geographic coordinate system such 'that they coincide with sample locations on the DEM and by further' .interpolation, of •the values concerned... The' pixel values were evaluated .in gray scale: from. 0 to 2,55.0 representing, the lowest pixel value and ,255 representing the highest. Sensitivity analyses on. 'Cohesion, and angle of internal friction, .investigate the effects of the parameters only on stability, revealed, that cohesion, was effective at a rate of 70% by itself » while: angle of Internal friction alone controlled 'the stability by a rate of 30%. The Iso-cohesion. and iso-friction maps previously obtained were- digitally combined in these rates and a "shear strength map" was prepared. The geographic, setting of the: study area is such that northern slopes usually receive dense precipitation, In relation to this fact, about 42% of the landslides, are due north.. Thus,, a slope orientation map was prepared using 'the DEM, and slo-