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SELECTED PUBLICATIONS

1976

1. The Extent of Oxygen Isotope Exchange Between Clay Minerals and Sea Water, 1976, *Geochim. Cosmochim. Acta*, Vol. 40, p743-748.(Yeh & Savin)

1977

1. Mechanism of Burial Metamorphism of Argillaceous Sediments: 3. Oxygen Isotopic Evidence, 1977, *GSA Bull.*, Vol. 88, p1321-1330.(Yeh & Savin)
2. The O18, O17, Si30, Si29 of Oxygen and Silicon in Stony Meteorites and Allende Inclusions, 1977, 8th Lunar Science Conference, p287-289.(Yeh & Epstein)

1978

1. The Hydrogen Isotope Exchange Between Clay Minerals and Sea water, 1978, *Geochim. Cosmochim. Acta*, Vol. 42, p140-143.(Yeh & Epstein)
2. $^{29}\text{Si}/^{28}\text{Si}$ and $^{30}\text{Si}/^{28}\text{Si}$ of Meteorites and Allende Inclusions, 1978, 9th Lunar Science Conference, p1289-1291.(Yeh & Epstein)

1979

1. Oxygen Isotope Geo-ther-mometry of Diagenetically Altered Shales, 1979, *SEPM Special Publication*, No. 26, p113-124.(Eslinger, Yeh & Savin)

2. Distribution, Mineralogy, Chemistry and Oxygen Isotopes of Clay Minerals from the North Equatorial Pacific Manganese Nodule Belt, 1979, *Clays and Clay Minerals*, Vol. 27, p185-194.(Yeh, Hein & Alexander)
3. Mineralogy and Diagenesis of Surface Sediments from Domes Sites A, B, and C, 1979, in " Marine Geology and Oceanography of Central Pacific Manganese Nodule Provenance", p365-396, Bishoff and Piper (eds.) , Plenum Publishing Co.(Hein & Yeh et al)

1980

1. D/H Ratios and Dehydration History of Shales During Burial, 1980, *Geochim. Cosmochim. Acta*, Vol. 44, p341-352.(Yeh)

1981

1. The Isotopic Records of Pelagic Sediments, 1981, in " The Sea ", Vol. 7, p1521-1554.(Savin & Yeh)
2. D/H and $^{13}\text{C}/^{12}\text{C}$ of Petroleum and Related Organic Matters, 1981, *Geochim. Cosmochim. Acta*, Vol. 45, p753-762.(Yeh & Epstein)
3. Oxygen Isotopic Composition of Cherts, Mid Pacific Mountains and Hess Rise, Deep Sea Drilling project Leg 62, 1981, DSDP Initial Report, Vol. LXII, p749-758.(Hein & Yeh)
4. Hydrothermal Clay Mineral Formation of East Pacific Rise and Bauer Basin Sediments, 1981, *Chemical Geology*, Vol. 32, p189-205.(Yeh & McMurtry)
5. Petrography, K-Ar Ages and Preliminary Stable Isotope Data from a Basalt Flow in Lisburne Group, Tunalik No. 1 Test Well, Northwestern NPRA, Alaska, The Branch of Alaskan Geology's 1980 Circular, USGS, 1981.(Yeh & Silberman et al.)
6. Mineralogy, $^{18}\text{O}/^{16}\text{O}$ and D/H of Sediments from DSDP Site 180, Aleutian Trench, 1981, *Clays and Clay Minerals*, Vo. 29, p304-315.(Eslinger & Yeh)
7. Oxygen and Hydrogen Isotope Geochemistry of Cretaceous Bentonites and Shales from the Disturbed Belt, Montana, Research Report #95, CITCO, 1981, p38.(Eslinger & Yeh)
8. Stable Isotopes In Ocean Sediments, 1981, *Offprints from the sea*, Vol. 7 The Oceanic Lithosphere. (Savin & Yeh)

1982

1. Geology and Chemistry of Hydrothermal Deposits from Active Submarine Volcano Loihi, Hawaii, 1982, *Nature*, Vol. 298, p234-239.(Yeh & Malahoff et al. }
2. 油氣中氫及碳穩定同位素實驗技術之建立, 中國石油公司探採研究中心 1982 年度研究報告, A07-8052, p10. (葉)

1983

1. Oxygen-Isotope Composition of Secondary Silica Phases, Costa Rica Rift, Deep Sea Drilling Project Leg 691, 1983, Initial Report of the DSDP, Vol. LXIX, p423-429.(Hein & Yeh)
2. Chemical and Isotopic Investigations into the Origin of Clay Minerals from Galapagos Hydrothermal Mounds Field, 1983, *Geochim. Cosmochim. Acta*, Vol. 47, p475-489.(McMurtry, Wang & Yeh)
3. Geochemistry of Hydrothermal Deposits from Loihi Submarine Volcano, Hawaii, 1983, *Earth Planet. Sci. Lett.*, Vol. 66, p438-449.(De Carlo, McMurtry & Yeh)
4. A Geochemical Study of Nephrite Deposits, Fengtien, Taiwan: H- and O- Isotope Aspects, 1983, in " Resource Assessments of Fengtien Nephrite Deposits ", Bureau of Mineral Resources, Taiwan, R.O.C., p357-372.(Yeh)

1984

1. Oxygen Isotope Geothermometry and D of Low-Grade Metamorphosed Shales from the Cambrian Conasauga Formation of Georgia, 1984, in " Shale-Slate Metamorphism in Southern Appalachians," Chapter 6, p141-152, Elsevier.(Eslinger, Yeh & Weaver)
2. Oxygen Isotopic Analysis in Marine Diatoms, 1984, Bull. Inst. Earth Sci., Academia Sinica, R.O.C., Vol. 4, p131-140.(Wang & Yeh)
3. 苗栗出磺坑標準剖面之穩定同位素研究,中國石油公司探採研究中心,七十三年度研究報告 F73-A04-8013, 1984, 共 11 頁.(葉)
4. The Quaternary Oxygen Isotope Records, 1984, Memoir of Geological Society of China, No. 6, p281-293.(Wang & Yeh)
5. Water in Geogenic Silica and Its Effects on Oxygen Isotope Values, 1984, Bull. Inst. Earth Sci., Academia Sinica, R.O.C., Vol. 4, p141-147.(Wang & Yeh)

1985

1. Oxygen Isotope Compositions of DSDP Site 480 Diatoms: Implication and Application, 1985, Geochim. Cosmochim. Acta, Vol. 49, p1469-1478.(Wang & Yeh)
2. A Geochemical Study of the Taiwan Gold and Associated Minerals, 1985, National Science Council Report, NSF 70-0202-MOO2-08, R.O.C., p55.(Tan & Yeh)

1986

1. Stable Isotopes and Formation of Francolite, 1986, Earth Planet. Sci. Let., Vol. 77, p20-34.(McArthur & Yeh et al.)
2. H- and O- Isotopes of Cretaceous Bentonites and Shales from the Disturbed Belt, Montana, 1986, Geochim. Cosmochim. Acta, Vol. 50, p59-68.(Eslinger & Yeh)
3. Oxygen Isotopes and Diagenesis of Clay Minerals During Sedimentation and Burial in the Sea, 1986, Clays and Clay Minerals, Vol. 34, No. 4, p403-406.(Yeh & Eslinger)
4. Stable-Isotope Study of Volcanogenic and Sedimentary- Manganese Deposits, 1986, U.S.G.S. Open-File Report p585-662.(Yeh, Hein & Koiski)

1987

1. H- and O- Isotope Geochemistry of Serpentinite and Serpentinization, 1987, Bull. Inst. Earth Sci., Academia Sinica, Vol. 6, p197-209.(Yui, Yeh & Wang)
2. Chert-Hosted Manganese Deposits in Sedimentary Sequences of the Franciscan Complex, Diable Range, California, 1987, in "Siliceous Sedimentary Rock-Hosted Ores and Petroleum ", Hein (ed.), Van Nostrand and Reinhold, p206-230.(Hein, Koski & Yeh)

1988

1. Carbon Isotopic Composition and Lattice-Bound Carbonate of Peru-Chile Margin Phosphorites, 1988, Mar. Geology, Vol. 80, p287-307.(Glenn , Arthur , Yeh & Burnett)
2. Stable Isotope Studies of Nephrite Deposits from Fengtien, Taiwan, Geochim. Cosmochim. Acta, 1988, Vol. 52, p593-602.(Yui,Yeh & Wang)

1989

1. Oxygen Isotope Temperatures of Some Glauconite and Mixed-Layer Glauconite/Nontronite in the Atlantis II Deep, Red Sea, 1989, Acta Geologica Taiwanica, Vol. 22, p33-40.(Gazzaz,Yeh & Tan)

1990

1. Eocene Diatom Chert from Adak Island, Alaska, 1990, Sediment. Petrol., Vol. 60, p250-257.(Hein, Yeh & Barron)

2. Stable Isotope Geochemistry and Origins of Fengtien Serpentinite, 1990, *Geochim. Cosmochim. Acta*, Vol. 54, p1417-1426.(Yui, Yeh & Wang)

1991

1. Geochemistry of a Hydrothermal Nontronite Deposits from the Lau Basin, Southwest Pacific in " Geological Evaluation and Hydrothermal Activity in the Lau and North Fiji Basins: SOMNE Cruise S.O. - 35 ", 1991, p615-628. Eeditors U. Von Stockelberg and U. Von Rad.(Stoffers, Singer, McMurtry, Arguit & Yeh)
2. Tectonic and Geochemical Characteristics of Pleistocene Gold Deposits in Taiwan. *Neotectonics and Resources*, 1991, Belhaven Press, London, New York, Editors by Eosgrove and Jones, p290-305.(Tan, Yeh, Chen & Liu)

1992

1. An Assessment of Substrate Phosphorite Resources in Hawaiian EEZ. *Proceeding of oceans 91*, IEEE, Washington D.C., p1575-1582.(Avidson, Wiltshire & Yeh)
2. Geology, Geophysics, Geochemistry, and Deep-Sea Mineral Deposits, Federated States of Micronesias: KORDI-USGS R.V. Farnella Cruise F11-90-CP. U.S.G.S. Open File Report p92-210. 191 pages.(Hein et al.)
3. Deep-Sea Mineral Deposits of Republic of Palau and Federated States of Micronesia: R.V. Franela Cruise S-91-WP, UGGS Open File Report. (Hein et al.)
4. Resource Assessment of Substrate Phosphorite in Hawaiian EEZ. State of Hawaii Publication No. 14-12-002/-30387. (Avidson, Wiltshire and Yeh)

1993

1. Chemistry of Hydrothermal Deposits and Fluids from Seamounts in the Northern Mariana Arc, 1994, *Earth Planet. Sci. Lett.*, 114, p517-528. (McMurtry & Yeh et al.)
2. Two major Cenozoic Episodes of phosphogenesis recorded in Equatorial Pacific seamount deposits, 1993, *Paleoceanography*, 8, p293-311. (Hein, Yeh & Benninger)

1994

1. A Carbon-13 Method for Evaluating Degradation of Starch-Based Polymers, 1994, *J. of Environmental Polymer Degradation*, V2, No.3. (Sykes, Yeh, West, Gauldie & Helsley)
2. Cenozoic Accumulation History of a Pacific Ferromanganese Crust, 1994, *Earth Planet. Sci. Lett.*, 125, p105-118. (McMurtry & Yeh et al.)
3. Composition and Origin of Hydrothermal Ironstone from Central Pacific Seamounts, 1994, *Geochim. Cosmochim. Acta*, 58, p179-189. (Hein, Yeh, Gunn & Gibbs)
4. Origin of Smectite and Illite/Smectite in the Barbados Accretionary Complex: Oxygen Isotope Evidence, 1994, *Geol.*, 22, p219-222. (Tribble & Yeh)

1995

1. 台南，高雄地區上新世及更新世地層中石膏之硫同位素研究:初步結果，經濟部中央地質調查所彙刊第十號, 135-144(葉學文，謝凱旋)
2. Paleolimnology of Yuen-Yang Lake Based on Isotopic Composition of Organic Carbon, 1995, *J. Geol. Soc. China*, Vol. 38, No. 2, p.125-139.(Yeh, Chen & Kao)
3. Carbon Isotopes and the Origin of Rhodochrosite, 1995, *J. Geol. Soc. China*, Vol. 38, No. 4, p.411-422.(Yeh & Hein et al.)
4. Oxygen Isotope,Genesis and Diagenesis of Smectite in the Ocean, 1995, *J. Geol. Soc. China*, Vol. 38, No. 3, p.243-254.(Yeh)
5. Origin of the Nsuta Manganese Carbonate Proto-ore, Ghana: Carbon and Oxygen Isotope Evidence, 1995, *J. Geol. Soc. China*, Vol. 38, No. 4, p.397-409. (Yeh, Hein & Bolton)

6. 台灣西南部沉積岩中所產石膏礦物簡記, 1995, 地質, 第十五卷第二期。(謝凱旋, 葉學文, 黃鑑水)
7. 澎湖古土壤中的黏土礦物, 1995, 中國地質年會手冊, p48-52. (王為敏, 王明光, 葉學文, 陳培源)

1996

1. The Study of Some Late-Miocene Paleosols in Penghu Islands, Taiwan, 1996, Journal of the Chinese Agricultural Chemistry Society, 34(4)417-428. (Wang, Yeh, Wang & Chen)
2. 13CPDB Variation in Contemporary Bryophytes and the Constraint on Its Use as a Proxy of Paleoatmospheric CO₂ Contents, 1996, J. Geol. Soc. China, 39(3), 325-336.(Yeh & Kao)
3. 澎湖地區部份晚中新世紀土壤的研究, 1996, 第三十四卷第四期第四一七至四二八頁。(王為敏、葉學文、王明光、陳培源)
4. Raman Study Of D₂O At High Pressures In A Cubic Zirconia Anvil Cell, 1996, J. Raman Spectro., 27, 823-827, (Xu, Yeh, Yen and Huang). 國外

1997

1. Stable Isotope Study of Insular Phosphorite Deposits: Preliminary C- and O-Isotope Results On The Deposit Of The LAU Group, FIJI. 1997. J. Geol. Soc. China, 40(2), 401-414.(Yeh)
2. Fault-controlled Metasomatic Alteration Of Early Proterozoic Sedimentary Manganese Ore At Mamatwan Mine, Kalahari Manganese Field, South Africa. S. Afr. J. Geol., 100(1), 53-71.(Gutmer, Beukes and Yeh). 國外
3. 南投縣誌-地質誌, 1997, 南投縣政府 4 Tables, 13 Figs., 41pp. Text.(葉學文, 謝凱旋).

1998

1. 南投縣誌-礦物誌, 1998, 南投縣政府 6 Tables, 1 Fig., 16pp. Text.(葉學文)
2. Kaolin mineralogy of clays in paleosal profiles of the late miocene sediment in Penghu Islands (Pescadores), Taiwan. 1988. Clays and clay minerals, V-46 : 1-9 (Wang, Yeh and Wang). 國外
3. Sulfur-isotope geochemistry of Chinkuashih copper-gold deposits, Taiwan: Preliminary results. 1998. Water-Rock Interaction, Arehart & Hulston (eds) 1998 Balkema, Rotterdam.(Yeh, Tan and Kusakabe). WRI-9 Symposium Volume P.591- 594 (Short paper). 國外
4. Composition and Origin of Early Cambrian Tiantaishan P - Mn deposit Shaanxi Province. Chapter 9, Manganese and associated ore deposit in China (A special issue of Ore Geology Review), 1998, Hein ,Fan ,Ye ,Liu and Yeh.(in press). 國外
5. Stable isotope geochemistry of low - P Mn deposits of Shaanxi Province. Chapter 4, Manganese and associated ore deposits in China (A special issue of Ore Geology Review), 1998, Yeh ,Fan, Hein and Ye. (in press). 國外
6. 台灣中部地區特殊地景調查及登錄計劃(三)彰化縣、雲林縣、南投縣。中央地調所, 1998年6月。謝凱旋, 張徽正、陳華玫、葉學文、何信昌、呂學諭、陳政恆、徐玲莉、高心潔。

1999

1. Hein, J.R., D. Fan, J. Ye, T. Liu and H.W. Yeh (1999) Composition and origin of Early Cambrian Tiantaishan phosphorite-Mn carbonate ores, Shaanxi Province, China: Ore Geology Reviews, 15, 95-134. IESEP1999-027
2. Yeh, H.W., J. R, Hein , J. Ye and D. Fan (1999) Stable isotope, chemical, and mineral compositions of the Middle Proterozoic Lijiaying Mn deposit, Shaanxi Province, China: Ore Geology Reviews, 15, 55-69. IESEP1999-024

3. Yeh, H.W., C.H. Chen and K.S. Shea (1999) Sulfur and strontium isotope study of some gypsum samples from southern Taiwan: *Geochemistry of the Earth's Surface*, 69-72. Armannsson (ed.), Balkema, Rortterdam, ISBN 90 5809 0736.

2000

1. Origin of Chinkuashin Cu-Au Deposit : An Overview, 2000 , Ti-Chin Vol. 20, No, 1-2, pp. 25-40. (Yu and Yeh, In Mandarin)
2. Geological Environments of Nan-Tou County, Central Taiwan, Nan-tou County Hall, 41pp. (Yeh and Shieh, In Mandarin) (Peer-review)
3. Influence of wind on carbon -isotope composition of plants. 31st International Geological Congress. Rio de Janeiro. Brazil. Symposium Colume.
4. 台灣中部地區主要砂頁岩地層之黏土礦物學 (初步研究) 。中央研究院地球科學研究所研究報告 IESCR2000-004 (共 30 頁) ，中華民國八十九年十月。葉學文、王為敏。

2001

1. Factors Affecting the Isotopic Composition of Organic Matter. (1) Carbon Isotopic Composition of Terrestrial Plant Materials, 2001, Proc. Natl. Sci. Counc. ROC (B) Vol. 25, No. 3, pp. 137-147. (Yeh & Wang) (Peer-review)
2. Fluid-inclusion, O-and S-isotope Study of Selected Barite and Enargite Sample from Chinkuashin Cu-Au Deposit , 2001, Water rock interaction, Vol. 2, pp. 1517-1600. (H. W. Yeh, Y. S. Wang, L. P. Tan, M. Kusakabe, B. S. Yu.) (Peer-review)
3. N-Isotopes in Forestry Ecosystem, 2001, Quart. J. For. Res. of Taiwan, Vol .23, No.3, pp. 91-101. (Liu & Yeh, In Mandarin) (Peer-review)
4. A 12,000-Year Record of Climate of Central Taiwan. Eos Trans. AGU, 82(47), Fall Meet. Suppl., Abstract V31C-03.
5. 風對植物生長及其同位素含量之影響 (初步研究) 。中央研究院地球科學研究所報告 IESCR2001-005 (共 36 頁) ，中華民國九十年七月。葉學文、陳芬莞。

2002

1. Mass-Spectrometry, 2002, in (Instrumental Analysis) , Chapter 13, National Institute for Compilation and Translation. (Yeh, In Mandarin)
2. Environmental Mineralogy of Nan-Tou County Hall, 16 pp. (Yeh, In Mandarin) (Peer-review)
3. C-isotope biogeochemistry Late Pleistocene to Early Holocene Peat-Bog Samples of Central Taiwan : Preliminary Results, 2002, Symposium volume,6th International Symposium on the Geochemistry of the Earth's Surface, pp. 188-192. (Yeh) (Peer-review)
4. Abrupt climate change (2002) , Conference Volume, Goldschmidt 2002. In Press. (Yeh)
5. 台灣紅土的成因與古氣候。中央研究院地球科學研究所研究報告 IESCR2002-005 (共 43 頁) ，中華民國九十一年四月。葉學文、劉麗純。

2003

1. $\delta^{13}\text{C}$ values of marine macroalgae from Taiwan.2003. (Wei-Lung Wang¹ and Hsueh-Wen Yeh²) Bot. Bull. Acad. Sin. 44:107-112. (SCI)
2. Mass-Spectrometry, 2003, in (Instrumental Analysis), Chapter 13, National Institute for Compilation and Translation. (Yeh) P.367-392
3. 關刀溪森林生態系土壤二氧化碳釋放來源之探討.2003. (李振州 葉學文 譚振中) "土壤與環境" 季刊，第六卷，第三期，第 145 頁至第 152 頁。

2004

1. Tripoli in the footwall of the Jurassic Urkut Manganese Deposit, Hungary: Mineralogical, chemical, and oxygen isotopic compositions. (Polgari, Hein, & Yeh), *Sedimentary Geochemistry*. (In Press)
2. Chimei: A Neolithic Quarry Island in Southeast China. (Rolett, Tsang, Yeh, & Hung), *Antiquity*, (In Press.)
3. Genetic Effect on Carbon Isotope Composition of a Plant. (Yeh). *Chemical Geology*.