

6 *Literaturverzeichnis*

Adatepe, F., Demirel, S. & Alpar, B. (2002). "Tectonic setting of the Marmara Sea region: based on seismic reflection data and gravity modelling." *Marine Geology* **190**: 383-395.

Aksu, A. E., Abranjo, T., Mudie, P. J. & Yasar, D. (1999a). "Organic geochemical and palynological evidence for terrigenous origin of the organic matter in Aegean Sea sapropel S1." *Marine Geology* **153**: 303-318.

Aksu, A. E., Hiscott, R. N., Kaminski, M. A., Mudie, P. J., Gillespie, H., Abrajano, T. & Yasar, D. (2002). "Last glacial-Holocene paleoceanography of the Black Sea and Marmara Sea: stable isotopic, foraminiferal and coccolith evidence." *Marine Geology* **3160**: 1-31.

Aksu, A. E., Hiscott, R. N. & Yasar, D. (1999b). "Oscillating Quaternary water levels of the Marmara Sea and vigorous outflow into the Aegean Sea from the Marmara Sea - Black Sea drainage corridor." *Marine Geology* **153**: 275-302.

Aksu, A. E., Yasar, D. & Mudie, P. J. (1995a). "Origin of the late glacial-Holocene hemipelagic sediments in the Aegean Sea: clay mineralogy and carbonate cementation." *Marine Geology* **123**: 33-59.

Aksu, A. E., Yasar, D. & Mudie, P. J. (1995b). "Paleoclimatic and paleoceanographic conditions leading to development of sapropel layer S1 in the Aegean Sea." *Palaeogeography, Palaeoclimatology, Palaeoecology* **116**: 71-101.

Alavi, S. N. (1988). "Late Holocene deep-sea foraminifera from the Sea of Marmara." *Marine Micropaleontology* **13**: 213-237.

Ambraseys, N. N. (1970). "Some characteristic features of the North Anatolian Fault Zone." *Tectonophysics* **9**: 143-165.

Anastasakis, G. C., Stanley, D. J. (1984). Sapropels and organic-rich variants in the Mediterranean: Sequence development and classification. *Fine-Grained Sediments: Deep Water Processes and Facies*. D. A. V. Stow & D. J. W. Piper. London. **15**: 497-510.

Anderson, T. F., Arthur, M. A. (1983). Stable isotopes of oxygen and carbon and their application to sedimentologic and palaeoenvironmental problems. *Stable Isotopes in sedimentary geology, SEPM Short Course*. M. A. Arthur, T. F. Anderson, I. R. Kaplan, J. Veizer & L. S. Land. Tulsa, The Society of Economic Paleontologists and Mineralogists. **10**: p. 1-115.

Armijou, R., Meyer, B., Navarro, S., King, G. & Barka, A. (2002). "Asymmetric slip partitioning in the Sea of Marmara pull-apart: a clue to propagation processes of the North Anatolian Fault?" *Terra Nova* **14**(2): 80-86.

Armijou, R., Meyer, B. (1999). "Westwards propagation of the North-Anatolian fault into the Northern Aegean: timing and kinematics." *Geology* **27**: 267-270.

Backhaus, K., Erichson, B., Plinke, W. & Weiber, R. (1996). *Multivariate Analysenmethoden*. Berlin, Springer, 420 pp.

- Ballard, R. D., Coleman, D. F. & Rosenberg, G. D. (2000). "Further evidence of abrupt Holocene drowning of the Black Sea shelf." *Marine Geology* **170**: 253-261.
- Bard, E., Hamelin, B. & Fairbanks, R. G. (1990). "U-Th ages obtained by mass spectrometry in corals from Barbados: sea level during the past 130000 years." *Nature* **346**: 456-458.
- Barka, A. A., Kadinsky-Cade, K. (1997). Neotectonics of the Marmara region. *Active Tectonics in Northwest Anatolia - The Marmara Poly-Project*. C. Schindler & P. M. Zürich, Hochschulverlag AG: pp. 55-87.
- Berger, W. H. (1967). "Foraminiferal ooze: Solution at depths." *Science* **156**: 383-385.
- Berner, R. A. (1970). "Sedimentary pyrite formation." *American Journal of Science* **268**: 1-23.
- Berner, R. A. (1974). Iron sulphides in Pleistocene deep Black Sea sediments and their paleo-oceanographic significance. *The Black Sea - Geology, Chemistry and Biology*. E. T. Degens & D. A. Ross, American Association of Petroleum Geologists Memoir. **20**: 524-531.
- Berner, R. A. (1980). *Early diagenesis: a theoretical approach*. Princeton, N.J., Princeton University Press, 320 pp.
- Bernhard, J. M. (1986). "Characteristic assemblages and morphologies of benthic foraminifera from anoxic, organic-rich deposits: Jurassic through Holocene." *Journal of Foraminiferal Research* **16**: 207-215.
- Bertine, K. K. (1972). "The deposition of molybdenum in anoxic waters." *Marine Chemistry* **1**: 43-53.
- Bostrom, K., Joensuu, O., Moore, C., Bostrom, B., Dalziel, M. & Horowitz, A. (1973). "Geochemistry of barium in pelagic sediments." *Lithos* **6**: 159-174.
- Brumsack, H.-J., Gieskes, J. M. (1993). "Interstitial water trace-metal chemistry of laminated sediments from the Gulf of California, Mexico." *Marine Chemistry* **14**: 89-106.
- Brunner, C. A., Ledbetter, M. T. (1987). "Sedimentological and micropaleontological detection of turbidite muds in hemipelagic sequences: an example from the late Pleistocene levee of Monterey Fan, central California continental margin." *Marine Micropaleontology* **12**: 223-239.
- Cagatay, M. N., Borowski, W. S. & Ternois, Y. G. (2001). "Quaternary sediments at ODP Leg 172 sites in western North Atlantic: evidence from pore water and sediment geochemistry." *Chemical Geology* **175**: 467-484.
- Cagatay, M. N., Görür, N., Algan, A., Eastoe, C. J., Tchapylyga, A., Ongan, D., Kuhn, T. & Kuscu, I. (2000). "Late Glacial-Holocene palaeoceanography of the Sea of Marmara: timing of connections with the Mediterranean and the Black Seas." *Marine Geology* **167**: 191-206.
- Calvert, S. E. (1990). *Geochemistry and origin of Holocene Sapropel in the Black Sea. Facets of modern biochemistry*. v. Ittekkot, S. Kempe, W. Michaelis & A. Spitzky. Berlin Heidelberg New York, Springer Verlag: 326-352.

Calvert, S. E., Fontugne, M. R. (2001). "On the late Pleistocene-Holocene sapropel record of climatic and oceanographic variability in the eastern Mediterranean." *Paleoceanography* **16**(1): 78-94.

Calvert, S. E., Pedersen, T. F. (1993). "Geochemistry of recent oxic and anoxic marine sediments: Implications for the geological record." *Marine Geology* **113**: 67-88.

Calvert, S. E., Thode, H. G., Yeung, D. & Karlin, R. E. (1996). "A stable isotope study of pyrite formation in the Late Pleistocene and Holocene sediments of the Black Sea." *Geochimica et Cosmochimica Acta* **60**: 1261-1270.

Caner, H., Algan, O. (2002). "Palynology of sapropelic layers from the Marmara Sea." *Marine Geology* **3156**: 1-12.

Chappell, J., Omura, A., Esat, T., McCulloch, M., Pandolfi, J. & Pillans, B. (1996). "Reconciliation of the late Quaternary sea levels derived from coral terraces at Huon Peninsula with deep sea oxygen isotope records." *Earth & Planetary Science Letters* **141**: 227-236.

Chave, E. K., Suess, E. (1970). "Calcium carbonate saturation in seawater: Effects of dissolved organic matter." *Limnology and Oceanography* **15**(4): 633-637.

Chester, R. (2002). *Marine Geochemistry*, Sec. Edition. London, Chapman and Hall, 697 pp.

Corfield, R. M. (1994). "Palaeocene oceans and climate: an isotopic perspective." *Earth-Science Reviews* **37**: 225-252.

de Menocal, P. B. (1995). "Plio-Pleistocene African climate." *Science* **270**: 53-59.

Dymond, J., Suess, E. & Lyle, M. (1992). "Barium in deep-sea sediments: A geochemical proxy for paleoproductivity." *Paleoceanography* **7**: 163-181.

Emeis, K.-C., Party, S. S. (1996). *Paleoceanography and sapropel introduction*. Proc. ODP, Init. Repts. K. C. Emeis, A. H. F. Robertson, C. Richter et al., College Station, TX (Ocean Drilling Program). **160**: 21-26.

Emerson, S., Cranston, R. E. & Liss, P. S. (1979). "Redox species in a reduced fjord: equilibrium and kinetic considerations." *Deep-Sea Research* **26A**: 859-878.

Epstein, S., Buchsbaum, R., Lowenstam, H. A. & Urey, H. C. (1953). "Revised carbonate-water isotopic temperature scale." *Geological Society of America Bulletin* **64**: 1315-1326.

Ergün, M., Özel, E. (1995). "Structural relationship between the Sea of Marmara Basin and the North Anatolian fault zone." *Terra Nova* **7**(2): 278-288.

Fairbanks, R. G. (1989). "A 17,000 year glacio-eustatic sea level record: influence of glacial melting rates on the Younger Dryas and deep-ocean circulation." *Nature* **342**: 637-642.

Fontanier, C. (2000). *Benthic foraminiferas from the Aegean Sea*. Institute for Palaeoceanography, University of Southampton. <http://www.soton.ac.uk/~bam2/col-index/fossilindex/Forams/Eelco/med-aegean/index.htm>

Francois, R., Honjo, S., Manganini, S. J. & Ravizza, G. E. (1995). "Biogenic barium fluxes to the deep sea: Implications for paleoproductivity reconstructions." *Global Biochemical Cycles* **9**(2): 289-303.

Froelich, P. N., Klinkhammer, G. P., Bender, M. L., Luedtke, N. A., Heath, G. R., Cullen, D., Dauphin, P., Hammond, D., Hartmann, B. & Maynard, V. (1979). "Early oxidation of organic matter in pelagic sediments of the eastern equatorial Atlantic: suboxic diagenesis." *Geochimica et Cosmochimica Acta* **43**: 1075-1090.

Görür, N., Cagatay, N., Emre, Ö., Alpar, B., Sakinc, M., Islamoglu, Y., Algan, O., Erkal, T., Kecer, M., Akkök, R. & Karlik, G. (2001). "Is the abrupt drowning of the Black Sea shelf at 7150 BP a myth?" *Marine Geology* **176**: 65-73.

Grossman, E. L. (1994). "The carbon and oxygen isotope record during the evolution of Pangea-Carboniferous to Triassic." *Geological Society of America Special Papers* **288**: 207-228.

Halbach, P., Holzbecher, E., Reichel, T. & Moche, R. (2004). "Migration of the sulfate-methane reaction zone in marine sediments in the Sea of Marmara - can this mechanism be tectonically induced?" *Chemical Geology* (in print).

Halbach, P., Kuscu, I., Inthorn, M., Kuhn, T., Pekdeger, A. & Seifert, R. (2002). Methane in sediments from the deep Marmara Sea and its relation to local tectonic structures. Integration of Earth Science Research on the Turkish and Greek 1999 Earthquakes; NATO Science Series, IV. Earth and Environmental Sciences. N. Görür. Istanbul, TÜBITAK. **9**: 71-85.

Heinrichs, H., Herrmann, A. G. (1990). *Praktikum der Analytischen Geochemie*. Berlin Heidelberg New York, Springer Verlag, 669 pp.

Henry, P., Le Pichon, X., Aloisi, V., Rangin, C. & Reichel, T. (2003). "Cold seeps and active faults: steady state, transient and catastrophic methane emissions." OMARC-Conference, Paris, September 15th-17th, 2003 . p. 28.

Hensen, C., Zabel, M., Pfeifer, K., Schwenk, T., Kasten, S., Riedinger, N., Schulz, H. D. & Boetius, A. (2003). "Control of sulfate pore-water profiles by sedimentary events and the significance of anaerobic oxidation of methane for the burial of sulfur in marine sediments." *Geochimica et Cosmochimica Acta* **67**(14): 2631-2647.

Higgs, N. C., Thomson, J., Wilson, T. R. S. & Croudace, I. W. (1994). "Modification and complete removal of eastern Mediterranean sapropels by postdepositional oxidation." *Geology* **22**: 423-426.

Hiscott, R. N., Aksu, A. E., Yasar, D., Kaminski, M. A., Mudie, P. J., Kostylev, V. E., MacDonald, J. C., Isler, F. I. & Lord, A. R. (2002). "Deltas south of the Bosphorus Strait record persistent Black Sea outflow to the Mamara Sea since ~10 ka." *Marine Geology* **190**: 95-118.

Holland, H. D. (1978). *The Chemistry of the Atmosphere and the Ocean*. New York, John-Wiley & Sons, 351 pp.

- Howard, A. G., Apte, S. C., Comber, S. D. W. & Morris, R. J. (1988). "Biogeochemical control of the summer distribution and speciation of arsenic in the Tamer estuary." *Estuary Coastal Shelf Sciences* **27**: 427-435.
- Hübner, A. (2002). Geochemische und mineralogische Untersuchung von Sedimenten aus dem Bereich des anoxischen, hypersalinen Urania-Beckens (östliches Mittelmeer) zur Charakterisierung von mariner Sedimentation unter extremen Bedingungen. Institut für Geologie, Geophysik und Geoinformatik. Berlin, Freie Universität: 105 pp.
- Imbrie, J., Hays, J. D., Martinson, D. G., McIntyre, A., Mix, A. C., Morley, J. J., Pisias, N. G., Prell, W. L. & Shackelton, N. J. (1984). The orbital theory of Pleistocene climate: support from a revised chronology of the marine Delta 18O record. *Milankowitch and climate: Understanding the response to astronomical forcing*. A. Berger, J. Imbrie, J. D. Hays, G. Kukla & B. Saltzman, NATO ASI Series: pp. 269-300.
- Imren, A., Le Pichon, X., Rangin, C., Demirbag, E., Ecevitoglu, B. & Görür, N. (2001). "The North Anatolian Fault within the Sea of Marmara: a new evaluation based on multichannel seismic and multibeam data." *Earth & Planetary Science Letters* **186**: 143-158.
- Inthorn, M. (2000a). Geochemische Bearbeitung eines Sedimentkerns aus dem westlichen Marmarameer/Türkei zur Rekonstruktion der spätpleistozänen und holozänen ozeanographischen Entwicklung. Diplomarbeit, FU Berlin, FR Geochemie Hydrogeologie und Mineralogie: 106 pp..
- Inthorn, M. (2000b). "Bathymetrie und Tektonik des tiefen Marmarameeres; Türkei." Diplomkartierung, FU Berlin, FR Geochemie Hydrogeologie und Mineralogie: 62 pp.
- Jannasch, H. W., Truper, H. G. & Tuttle, J. H. (1974). Microbial Sulfur Cycle in the Black Sea. *The Black Sea - Geology, Chemistry and Biology*. E. T. Degens & D. A. Ross. Tulsa, Oklahoma, The American Association of Petroleum Geologists: pp. 419-425.
- Kaiho, K. (1991). "Global changes of Paleogen aerobic/anaerobic benthic foraminifera and deep-sea circulation." *Palaeoceanography, Palaeoclimatology, Palaeoecology* **83**: 65-85.
- Kaiho, K. (1994). "Benthic foraminiferal dissolved-oxygen index and dissolved-oxygen levels in the modern ocean." *Geology* **22**: 719-722.
- Kaminski, M. A., Aksu, A. E., Box, M., Hiscott, R. N., Filipescu, S. & Al-Salameen, M. (2002). "Late Glacial to Holocene benthic foraminifera in the Marmara Sea: implications for Black Sea-Mediterranean Sea connections following the last deglaciation." *Marine Geology* **190**: 165-202.
- Kasten, S., Freudenthal, T., Gingele, F. X. & Schulz, H. D. (1998). "Simultaneous formation of iron-rich layers at different redox boundaries in sediments of the Amazon deep-sea fan." *Geochimica et Cosmochimica Acta* **62**(13): 2253-2264.
- Kopp, K. O., Pavoni, N. & Schindler, C. (1969). "Geologie Thrakiens IV: Das Ergene Becken." Beihefte zum Geologischen Jahrbuch **76**: 136 pp.
- Korolev, D. F. (1958). "The role of Iron sulphides in the accumulation of molybdenum in sedimentary rocks of the reduced zone." *Geochemistry International* **4**: 452-463.

- Kowalski, S. (2004). "Sedimentologische, Geochemische und mikropaläontologische Untersuchungen an einem Sedimentkern aus dem Marmara-Meer; Türkei (in Vorbereitung)." Diplomarbeit, FU Berlin, FR Geochemie Hydrogeologie und Mineralogie.
- Lane Serff, G. F., Rohling, E., Bryden, H. L. & Charnock, H. (1997). "Postglacial connection of the Black Sea to the Mediterranean and its relation to the timing of sapropel formation." *Palaeoceanography* **12**(2): 169-174.
- Le Pichon, X., Cahmot-Rooke, N., Lallement, S., Noomen, R. & Veis, G. (1995). "Geodetic determination of the kinematics of central Greece with respect to Europe: Implications for Eastern mediterranean tectonics." *Journal of Geophysical Research* **100**: 12675-12690.
- Le Pichon, X., Sengör, A. M. C., Demirbag, E., Rangin, C., Imren, C., Armijo, R., Görür, N., Cagatay, N., Mercier de Lepinay, B., Meyer, B., Saatçilar, R. & Tok, B. (2001). "The active Main Marmara Fault." *Earth and Planetary Science Letters* **192**: 595-616.
- Leuschner, D. C., Sirocko, F. (2003). "Orbital insolation forcing of the Indian Monsoon - a motor for global climate changes?" *Palaeogeography, Palaeoclimatology, Palaeoecology* **197**: 83-95.
- Lowe, D. R. (1982). "Sediment gravity flows: II Depositional models with specific reference to the deposits of high-density currents." *Journal of Sedimentary Petrology* **52**(1): 279-297.
- Luz, B. (1979). "Paleoceanography of the post-glacial eastern Mediterranean." *Nature* **278**(847-848).
- Lyons, T. W. (1997). "Sulfur isotopic trends and pathways of iron sulfide formation in upper Holocene sediments of the anoxic Black Sea." *Geochimica et Cosmochimica Acta* **61**(16): 3367-3382.
- Marshall, J. D. (1992). "Climatic and oceanographic isotopic signals from the carbonate rock record and their preservation." *Geological Magazine* **129**: 143-160.
- Martinez-Ruiz, F., Kastner, M., Paytan, A., Ortega-Huertas, M. & Bernasconi, S. M. (2000). "Geochemical evidence for enhanced productivity during S1 sapropel deposition in the Eastern Mediterranean." *Paleoceanography* **15**(2): 200-209.
- Matthes, S. (1993). *Mineralogie*. Berlin, New York, London, Springer Verlag, 461 pp.
- Mercone, D., Thomson, J., Abu-Zied, R. H., Croudace, I. W. & Rohling, E. J. (2001). "High-resolution geochemical and micropalaeontological profiling of the most recent eastern Mediterranean sapropel." *Marine Geology* **177**: 25-44.
- Middelburg, J. J., Calvert, S. E. & Karlin, R. (1991). "Organic-rich transitional facies in silled basins: Response to sea-level change." *Geology* **19**: 679-682.
- Middelburg, J. J., Hoede, D., Van der Sloot, H., Van der Weijden, C. H. & Wijstra, J. (1988). "Arsenic, antimony and vanadium in the North Atlantic Ocean." *Geochimica et Cosmochimica Acta* **52**: 2871-2878.

- Moche, R. (2001). Untersuchungen der Porenwasserchemie eines Sedimentkerns aus dem westlichen Marmarameer. Diplomarbeit, FU Berlin, FR Geochemie Hydrogeologie und Mineralogie: 65 pp.
- Müller, B., Wang, Y., Dittrich, M. & Wehrli, B. (2003). "Influence of organic carbon decomposition on calcite dissolution in surficial sediments of freshwater lake." *Water Research* **37**: 4524-4532.
- Murat, A., Got, H. (1987). "Middle and Late Quaternary depositional sequences and cycles in the eastern Mediterranean." *Sedimentology* **34**: 885-899.
- Murray, R. W., Leinen, M. & Isern, A. R. (1993). "Biogenic flux of Al to sediment in the central equatorial Pacific ocean: evidence for increased productivity during glacial periods." *Palaeoceanography* **8**: 651-670.
- Nadeau, M.-J., Schleicher, M., Grootes, P. M., Erlenkeuser, H., Gott dang, G., Mous, D. J. W., Sarnheim, M. & Willkomm, H. (1997). "The Leibniz-Labor AMS facility at the Christian-Albrechts-University, Kiel, Germany." *Nuclear instruments and methods in physics research, B* **123**: 22-30.
- Niewöhner, C., Hensen, C., Kasten, S., Zabel, M. & Schulz, H. D. (1998). "Deep sulphate reduction completely mediated by anaerobic methane oxidation in sediments of the upwelling area off Namibia." *Geochimica et Cosmochimica Acta* **62**(3): 455-464.
- Nolet, G. J., Corliss, B. H. (1990). "Benthic foraminiferal evidence for reduced deep-water circulation during sapropel deposition in the Eastern Mediterranean." *Marine Geology* **94**: 109-130.
- O'Neil, J. R., Clayton, R. N. & Mayeda, T. K. (1969). "Oxygen isotopic fractionation in divalent metal carbonates." *Journal of Chemical Physics* **51**: 5547-5558.
- Okay, A. I., Demirbag, E., Kurth, H., Okay, N. & Kuscu, I. (1999). "An active, deep marine strike-slip basin along the North-Anatolian fault in Turkey." *Tectonics* **18**(1): 129-147.
- Okay, A. I., Kashlar-Öcan, A., Imren, C., Boztepe-Güney, A., Demirbag, E. & Kuscu, I. (2000). "Active faults and evolving strike slip basins in the Marmara Sea, northwest Turkey: a multichannel seismic reflection study." *Tectonophysics* **321**: 189-218.
- Ost, F. (1984). *Faktorenanalyse. Multivariate statistische Verfahren*. L. Fahrmeir & A. Hamerle. Berlin, New York, London, Springer Verlag: pp. 575-662.
- Paluska, A., Poetsch, T. & Bargu, S. (1989). Tectonics, paleoseismic activity and recent deformation mechanism in the Sapanca-Abant region (NW Turkey, North Anatolian Fault Zone). Proceedings of the Turkish-German Earthquake research project. J. Zschau & O. Ergünay: pp. 18-32.
- Parke, J. R., Minshull, T. A., Anderson, G., White, R. S., McKenzie, D., Kuscu, I., Bull, J. M., Görür, N. & Sengör, C. (1999). "Active faults in the Sea of Marmara, western Turkey, imaged by seismic reflection profiles." *Terra Nova* **11**(5): 223-227.

Parkhurst, D. L., Appelo, C. A. J. (1999). User's guide to PHREEQC (Version2)- A computer program for speciation, batch-reaction, one-dimensional transport, and inverse geochemical calculations. Water-Resources Investigations Report. Denver, Colorado, U.S. Department of the Interior: 312 pp.

Pätzold, J., Halbach, P., Hempel, G. & Weikert, H. (2000). Report and preliminary results of the METEOR cruise M 44/1, Östliches Mittelmeer - Nördliches Rotes Meer 1999, Cruise No. 44, 22. Jan. - 16. May 1999. Hamburg, Pages.

Petit, J. R., Jouzel, J., Raynaud, D., Barkov, N.I., Barnola, J.-M., Basile, I., Bender, M., Chappelaz, J., Davis, M., Delaygue, G., Delmotte, M., Kotlyakov, V. M., Legrand, V. Y., Lorius, C., Pepin, L., Ritz, C., Saltzman, E. & Stevenard, M. (1999). "Climate and atmospheric history of the past 420.000 years from the Vostok ice core." *Nature* **399**: 429-436.

Petschick, R. (2002). MacDiff 4.2.5, <http://servermac.geologie.uni-frankfurt.de/Rainer.html>.

Polat, S. C., Tugrul, S., Coban, Y., Basturk, O. & Salihoglu, I. (1998). "Elemental composition of seston and nutrient dynamics in the Sea of Marmara." *Hydrobiologia* **363**: 157-167.

Pruyters, P. A., De Lange, G. J., Middelburg, J. J. & Hydes, D. J. (1993). "The diagenetic formation of metal-rich layers in sapropel containing sediments in the eastern Mediterranean." *Geochimica et Cosmochimica Acta* **57**: 527-536.

Qian, H., Ricklefs, R. E. (2000). "Large-scale processes and the Asian bias in species diversity of temperate plants." *Nature* **407**: 180-182.

Quednau, M., Maggiulli, M., Rahders, E., Halbach, P. & Halbach, M. (1997). "Postdepositional reallocation patterns in sapropel-bearing sediments from contrasting diagenetic regimes, eastern Mediterranean Sea: A comparative geochemical study." *Chemie der Erde* **57**: 205-230.

Ramadan, H. A.-Z. (2001). Changes in the benthic foraminiferal ecosystem associated with the deposition of sapropel S1 in the Aegean and NE Levantine Seas. School of Ocean and Earth Science (SOES). Southampton, University of Southampton: pp. 167.

Rangin, C., Le Pichon, X., Demirbag, E., Imren, A. & Sengor, A. M. C. (in press). "Basin Inversion in the Sea of Marmara and the Propagation of the North Anatolian Fault within a pull apart basin system." *Tectonics*.

Redfield, A. C. (1934). On the proportions of organic derivatives in sea water and their relation to the composition of plankton. Liverpool, Liverpool University Press, p. 177-192.

Reilinger, R. E., McClusky, S. C., Oral, M. B., King, R. W. & Toksoz, M. N. (1997). "Global Positioning System measurements of present-day crustal movements in the Arabia-Africa-Eurasia plate collision zone." *Journal of Geophysical Research* **102**: 9983-9999.

Reimer, L., Pfefferkorn, G. (1977). *Raster-Elektronenmikroskopie*, Springer Verlag: 251-256 pp.

- Reyment, R. M., Jöreskog, K. G. & Marcus, L. F. (1996). *Applied Factor Analysis in Natural Sciences*. Cambridge, University Press, 380 pp.
- Roberts, N., Reed, J. M., Leng, M. J., Kuzucuoglu, C., Fontugne, M., Bertaux, J., Woldring, H., Bottema, S., Black, S., Hunt, E. & Karabiyikoglu, M. (2001). "The tempo of Holocene climatic change in the eastern Mediterranean region: new high-resolution crater-lake sediment data from central Turkey." *The Holocene* **11**(6): 721-736.
- Rohling, E. (1994). "Review and new aspects concerning the formation of eastern Mediterranean sapropels." *Marine Geology* **122**: 1-28.
- Romanek, C. S., Grossman, E. L. & Morse, J. W. (1992). "Carbon isotopic fractionation in synthetic aragonite and calcite: Effects of temperature and precipitation rate." *Geochimica et Cosmochimica Acta* **56**: 419-430.
- Röper, H.-P., Schwarz, S. (2003). "Late Pleistocene and Holocene sediment characteristics of Lake Stechlin, with particular reference to manganese enrichment." *Arch. Hydrobiol. Spec. Issues Advanc. Limnol.* **58**: 247-279.
- Rösler, H. J., Lange, H. (1975). *Geochemische Tabellen*. Leipzig, VEB Deutscher Verlag für Grundstoffindustrie, 674 pp.
- Rosignol-Strick, M. (1985). "Mediterranean Quaternary sapropels, an immediate response of the African Monsoon to variation in insolation." *Palaeogeography, Palaeoclimatology, Palaeoecology* **49**: 237-263.
- Rullkötter, J. (2000). *Organic-Matter: The Driving Force for Early Diagenesis*. Marine Geochemistry. H. D. Schulz & M. Zabel. Berlin, Springer-Verlag: pp. 129-172.
- Ryan, W. B. F., Pittman, W. C., Major, C. O., Shimkus, K., Moskalenko, V., Jones, G. A., Dimitrov, P., Görür, N., Sankinc, M. & Yuce, H. (1997). "An abrupt drowning of the Black Sea shelf." *Marine Geology* **138**: 119-126.
- Sadiq, M. (1990). "Arsenic chemistry in marine environments: a comparison between theoretical and field observations." *Marine Chemistry* **31**: 285-297.
- Sadiq, M. (1992). *Toxic metal chemistry in marine environments*. New York, Dekker, M. Inc., 390 pp.
- Sakinc, M., Yaltirak, C. & Oktay, F. Y. (1999). "Palaeogeographical evolution of the Thrace Neogene Basin and the Tethys-Paratethys relations at northwestern Turkey." *Palaeogeography, Palaeoclimatology, Palaeoecology* **153**: 17-40.
- Sancetta, C. (1994). "Mediterranean sapropels: seasonal stratification yields high production and carbon flux." *Paleoceanography* **9**(2): 195-196.
- Schmiedl, G., Hemleben, C., Keller, J. & Segl, M. (1998). "Impact of climatic changes on the benthic foraminiferal fauna in the Ionian Sea during the last 330,000 years." *Paleoceanography* **13**: 447-458.

- Schulz, H. D., Dahmke, A., Schinzel, U., Wallmann, K. & Zabel, M. (1994). "Early diagenetic processes, fluxes and reaction rates in sediments of the South Atlantic." *Geochimica et Cosmochimica Acta* **58**: 2041-2060.
- Schulz, H. D., Zabel, M. (2000). *Marine Geochemistry*. Berlin, Heidelberg, Springer Verlag, 455 pp.
- Seim, R., Tischendorf, G. (1990). *Grundlagen der Geochemie*. Leipzig, VEB Deutscher Verlag für Grundstoffindustrie, 632 pp.
- Sengör, A. M. C., Görür, N. & Saroglu, F. (1985). Strike slip faulting and related basin formation in zones of tectonic escape: Turkey as a case study. Strike-Slip deformation, basin formation, and Sedimentation. K. T. Biddle & N. Christie-Blick. London, Spec.Publ., Soc. Econ. Paleontol. Mineral.: pp. 227-264.
- Siddall, M., Rohling, E. J., Almogi-Labin, A., Hemleben, C., Meischner, D., Schmelzer, I. & Smeed, D. A. (2003). "Sea-level fluctuations during the last glacial cycle." *Nature* **423**(853-858).
- Sifeddine, A., Bertrand, P., Lallier-Verges, E. & Patience, A. J. (1996). "Lacustrine organic fluxes and paleoclimatic variations during the last 15ka: Lac Du Bouchet (Massif-Central, France)." *Quaternary Science Reviews* **15**: 203-211.
- Sperling, M., Schmiedl, G., Hemleben, C., Emeis, K.-C., Erlenkeuser, H. & Grootes, P. M. (2003). "Black Sea impact on the formation of eastern Mediterranean sapropel S1? Evidence from the Marmara Sea." *Palaeogeography, Palaeoclimatology, Palaeoecology* **190**: 9-21.
- Stanley, D. J., Blanpied, C. (1980). "Late Quaternary water exchange between the eastern Mediterranean and the Black Sea." *Nature* **285**: 537-541.
- Straub, C., Kahle, H. G. (1997). Recent crustal deformations and strain accumulation in the Marmara Sea region, NW Anatolia, inferred from repeated GPS measurements. *Active Tectonics of Northwest Anatolia, The MARMARA Poly-Project*. C. Schindler & M. Pfister. Zürich, Hochschulverlag AG an der ETH: 417-448.
- Stuiver, M., P.J., R., Bard, E., Beck, J. W., Burr, G. S., Hughen, K. A., Kromer, B., McCormac, G., van der Plicht, J. & Spurk, M. (1998). "INTCAL98 Radiocarbon Age Calibration, 24.000-0 cal BP." *Radiocarbon* **40**(3): 1041-1083.
- Sunda, W. G., Barber, R. T. & S.A., H. (1981). "Phytoplankton growth in nutrient rich seawater: importance of copper-manganese cellular interactions." *Journal of Marine Research* **39**: 567-586.
- Taymaz, T., Jackson, J. & McKenzie, D. (1991). "Active tectonics of the north and central Aegaen Sea." *Geophysical Journal International* **106**: 433-490.
- Tessier, A., Turner, D. R. (1995). *Metal Speciation and Bioavailability in Aquatic Systems*. Chichester, John Wiley, 696 pp.

- Thomson, J., Higgs, N., Jarvis, I., Hydes, D. J., Colley, S. & Wilson, T. R. S. (1986). "The behavior of manganese in Atlantic carbonate systems." *Geochimica et Cosmochimica Acta* **50**: 1807-1818.
- Thomson, J., Higgs, N. C., Croudace, I. W., Colley, S. & Hydes, D. J. (1993). "Redox zonation of elements at an oxic/post-oxic boundary in deep-sea sediments." *Geochimica et Cosmochimica Acta* **57**: 579-595.
- Thomson, J., Higgs, N. C., Wilson, T. R. S., Croudace, I. W., De Lange, G. J. & Van Santvoort, P. J. M. (1995). "Redistribution and geochemical behaviour of redox-sensitive elements around S1, the most recent eastern Mediterranean sapropel." *Geochimica et Cosmochimica Acta* **59**(17): 3487-3501.
- Thomson, J., Mercone, D., De Lange, G. J. & Van Santvoort, P. J. M. (1999). "Review of recent advances in the interpretation of eastern Mediterranean sapropel S1 from geochemical evidence." *Marine Geology* **153**: 77-89.
- Ünülata, U., Öguz, T., Latif, M. A. & Özsoy, E. (1990). The physical oceanography of the Turkish Straits. The physical oceanography of Sea Straits. L. J. Pratt. Dordrecht, Kluwer Academic publishers: 25-60.
- Ünülata, U., Özsoy, E. (1986). Oxygen deficiency of the Sea of Marmara. Oceanography of the Turkish Straits. I. Erdemly. Istanbul: 77 pp.
- Van Harten, R. C. (1987). "Ostracodes and the early holocene anoxic event in the Eastern Mediterranean-evidence and implications." *Marine Geology* **75**(263-269).
- Van Os, B. J. H., Middelburg, J. J. & De Lange, G. J. (1991). "Possible diagenetic mobilisation of barium in sapropelic sediment from the eastern Mediterranean." *Marine Geology* **100**: 125-136.
- Van Santvoort, P. J. M., De Lange, G. J., Thomson, J., Cussen, H., Wilson, T. R. S., Krom, M. D. & Ströhle, K. (1996). "Active post-depositional oxidation of the most recent sapropel (S1) in sediments of the eastern Mediterranean Sea." *Geochimica et Cosmochimica Acta* **60**: 4007-4024.
- Weaver, P. P. E., Rothwell, R. G. (1987). Sedimentation on the Madeira Abyssal Plain over the last 300000 years. Geology and Geochemistry of Abyssal Plains. Geol. Soc. Spec. Publ. P. P. E. Weaver & J. Thomson. Oxford London, Blackwell Scientific Publication. **31**: pp. 71-86.
- Wedepohl, K. H. (1978). Handbook of Geochemistry. Berlin, Heidelberg, New York, Springer-Verlag, 680 pp.
- Wilkin, R. T., Barnes, H. L. (1996). "Pyrite formation by reactions of iron monosulfides with dissolved inorganic and organic sulfur species." *Geochimica et Cosmochimica Acta* **60**(21): 4167-4179.
- Wilkin, R. T., Barnes, H. L. (1997). "Formation processes of framboidal pyrite." *Geochimica et Cosmochimica Acta* **61**(2): 323-339.

- Woith, H., Wang, R., Milkereit, C., Zschau, J., Maiwald, U. & Pekdeger, A. (2003). "Heterogeneous response of hydrogeological systems to the Izmit and Düzce (Turkey) earthquakes of 1999." *Hydrogeology Journal* **11**: 113-121.
- Wong, H. K., Lüdmann, T., Ulug, A. & Görür, N. (1995). "The Sea of Marmara: A plate boundary sea in an escape tectonic regime." *Tectonophysics* **244**: 231-250.
- Wong, H. K., Ulug, A., Lüdmann, T. & Özel, E. (1990). "Neotectonic Structure of the Sea of Marmara." *Mitt. Geol.-Paläont. Inst. Univ. Hamburg* **69**: 99-116.
- Wulf, S., Kraml, M., Kuhn, T., Schwarz, M., Inthorn, M., Keller, J., Kuscu, I. & Halbach, P. (2002). "Marine Tephra from the Cape Riva Eruption (22ka) of Santorini in the Sea of Marmara." *Marine Geology* **187**: 131-141.
- Yaltirak, C. (2002). "Tectonic evolution of the Marmara Sea and its surroundings." *Marine Geology* **190**: 493-529.
- Yaltirak, C., Alpar, B. (2002). "Kinematics and evolution of the northern branch of the North Anatolian Fault (Ganos-Fault) between the Sea of Marmara and the Gulf of Saros." *Marine Geology* **190**: 351-366.
- Yaltirak, C., Sakinc, M., Aksu, A. E., Hiscott, R. N., Galleb, B. & Ulgen, U. B. (2002). "Late Pleistocene uplift history along the southwestern Marmara Sea determined from raised coastal deposits and global sea-level variations." *Marine Geology* **190**: 1-24.
- Yilmaz, Y., Genc, S. C., Yigitbas, E., Bozcu, M. & Yilmaz, K. (1995). "Geological evolution of the late Mesozoic continental margin of Northwestern Anatolia." *Tectonophysics* **243**: 155-171.
- Zabel, M., Schulz, H. D. (2001). "Importance of submarine landslides for non-steady-state conditions in pore water systems- lower Zaire (Congo) deep sea fan." *Marine Geology* **176**: 87-99.
- Zhong, S., Mucci, A. (1993). "Calcite precipitation in seawater using a constant addition technique: A new overall reaction kinetic expression." *Geochimica et Cosmochimica Acta* **57**: 1409-1417.
- Zuddas, P., Mucci, A. (1994). "Kinetics of calcite precipitation from seawater: I. A classical kinetics description for strong electrolyte solutions." *Geochimica et Cosmochimica Acta* **58**(20): 4353-4362.
- Zuddas, P., Mucci, A. (1998). "Kinetics of calcite precipitation from seawater: II. The influence of ionic strength." *Geochimica et Cosmochimica Acta* **62**(5): 757-766.