

ARABIAN (PERSIAN) GULF

- Baker, A.C., Starget, C.J., McClanahan, T.R. & Glynn, P.W., 2004. **Coral's adaptive response to climate change.** *Nature*, vol. 430, no. 7001, p. 741.
- Johns, W.E., Yao, F., Olson, D.B., et al., 2004. **Observations of seasonal exchange through the straits of Hormuz and the inferred heat and freshwater budgets of the Persian Gulf.** *J. Geophys. Res.*, vol. 108, no. C12, pp. 21-1-21-18.
- Zhu, M. & Atkinson, B.W., 2004. **Observed and modelled climatology of the land sea breeze circulation over the Persian Gulf.** *Int. J. Climatol.*, vol. 24, no. 7, pp. 883-905.

ARABIAN PENINSULA

- Al Hurban, A. & Gharib, I., 2004. **Geomorphological and sedimentological characteristics of coastal and inland sabkhas, southern Kuwait.** *J. Arid Environ.*, vol. 58, no. 1, pp. 59-85.
- AL SHAYEA, N.A., 2004. **Effects of testing methods and conditions on the elastic properties of limestone rock.** *Eng. Geol.*, vol. 74, no. 1-2, pp. 139-156.
- Amin, A.A., 2004. **The extent of desertification on Saudi Arabia.** *Environ. Geol.*, vol. 46, no. 1, pp. 22-31.
- Beavington-Penney, S.J. & Racey, A., 2004. **Ecology of extant nummulitids and other larger benthic foraminifera: applications in palaeoenvironmental analysis.** *Earth Sci. Rev.*, vol. 67, no. 3-4, pp. 219-265.
- Bosch, D., Jamais, M., Boudier, F., Nicolas, A., Dautria, J.M. & Agrinier, P., 2004. **Deep and high temperature hydrothermal circulation in the Oman ophiolite – petrological and isotopic evidence.** *J. Petrol.*, vol. 45, no. 6, pp. 1181-1208.
- Brennan, S.T., Lowenstein, T.K. & Horita, J., 2004. **Seawater chemistry and the advent of biocalcification.** *Geology*, vol. 32, no. 6, pp. 473-476.
- CEULENEER, G., 2004. **Mantle mapped in the desert.** *Nature*, vol. 432, no. 7014, pp. 156-157.
- Dilek, Y. & Ahmed, Z., 2004. **Proterozoic ophiolites of the Arabian shield and their significance in Precambrian tectonics.** *Geol. Soc. Lond., Spec. Publ.* 218, pp. 685-700.
- Duane, M.J., Al Zamel, A.Z. & Eastoe, C.J., 2004. **Stable isotope (chlorine, hydrogen and oxygen), geochemical and field evidence for continental fluid vectors in the Al Khiran sabkha (Kuwait).** *J. Afr. Earth Sci.*, vol. 40, no. 1-2, pp. 49-60.
- Gray, D.R. & Gregory, R.T., 2004. **Ophiolite obduction and the Samail ophiolite: The behaviour of the underlying margin.** *Geol. Soc. Lond., Spec. Publ.*, no. 218, pp. 449-465.
- Gray, D.R., Hand, M., Mawby, J., Armstrong, R.A., Miller, J.M. & Gregory, R.T., 2004. **Sm-Nd and Zircon U-Pb ages from garnet-bearing eclogites, NE Oman: Constraints of high-P metamorphism.** *Earth Planet. Sci. Lett.*, vol. 222, no. 2, pp. 407-422.
- HUGHES, G.W., 2004. **Palaeoenvironments of selected lower Aptian rudists from Saudi Arabia.** *Courier Forsch. Inst. Senckenberg*, no. 247, pp. 233-245.

- Hughes, G.W., Siddiqui, S. & Sadler, R.K., 2004. **Computerized tomography reveals Aptian rudist species and taphonomy.** *Geol. Croatica*, vol. 57, no. 1, pp. 67-71.
- Kaufmann, G. & Dreybrodt, W., 2004. **Stalagmite growth and palaeo-climate: An inverse approach.** *Earth Planet. Sci. Lett.*, vol. 224, no. 3-4, pp. 529-545.
- Le Mee, L., Girardeau, J. & Monnier, C., 2004. **Mantle segmentation along the Oman ophiolite fossil mid-ocean ridge.** *Nature*, vol. 432, no. 7014, pp. 167-172.
- Mclaren, S.J. & Gardner, R.A.M., 2004. **Late Quaternary vadose carbonate diagenesis in coastal and desert dune and beach sands: Is there a palaeoclimatic signal?** *Earth Surface Processes & Landforms*, vol. 29, no. 12, pp. 1441-1458.
- Masuda, T. & Kimura, N., 2004. **Can a Newtonian viscous-matrix model be applied to microboundinage of columnar grains in quartzose tectonites?** *J. Struct. Geol.*, vol. 26, no. 10, pp. 1749-1754.
- Radies, D., Preusser, F., Matter, A. & Mange, M., 2004. **Eustatic and climatic controls on the development of the Wahiba Sans Sea, Sultanate of Oman.** *Sedimentology*, vol. 51, no. 6, pp. 1359-1385.
- Sadooni, F.N., Al Saad, H. & Nasir, S.J., 2004. **Halul and Sharao islands, offshore Qatar: Remnants of the great Infracambrian Hormuz salt basin.** *Carbonates & Evaporites*, vol. 19, no. 1, pp. 17-27.
- Schiebel, R., Treppke, U.F., Waniek, J.J., Bollmann, J. & Hemleben, C., 2004. **Distribution of diatoms, coccolithophores and planktic foraminifers along a trophic gradient during SW monsoon in the Arabian Sea.** *Mar. Micropaleontol.*, vol. 51, no. 3-4, pp. 345-371.
- Skelton, P.W., 2004. ***Oedomyophorus shaybahensis*, a new genus and species of caprinid (?) rudist from the lower Aptian Shu'aiba Formation of eastern Saudi Arabia.** *Courier Forsch. Inst. Senckenberg*, no. 247, pp. 35-47.
- Stakes, D.S. & Taylor, H.P., JR., 2004. **Oxygen isotope and chemical studies on the origin of large plagiogranite bodies in northern Oman, and their relationship to the overlying massive sulphide deposits.** *Geol. Soc. Lond., Spec. Publ.* 218, pp. 315-351.
- SubyanI, A.M., 2004. **Use of chloride-mass balance and environmental isotopes for evaluation of groundwater recharge in the alluvial aquifer, Wadi Tharad, western Saudi Arabia.** *Environ. Geol.*, vol. 46, no. 6-7, pp. 741-749.
- Twitchett, R.J., Krystyn, L., Baud, A., Wheeley, J.R. & Richoz, S., 2004. **Rapid marine recovery after the end-Permian mass extinction event in the absence of marine anoxia.** *Geology*, vol. 32, no. 9, pp. 805-808.

CYPRUS

- Borradaile, G.J. & Hamilton, T., 2004. **Magnetic fabrics may proxy as neotectonic stress trajectories, Pollis Rift, Cyprus.** *Tectonics*, vol. 23, no. 1, TC1001, pp. 1-11.
- Christidis, G.E., Makri, P. & Perdikatsis, V., 2004. **Influence of grinding on the structure and colour properties of talc, bentonite and calcite white fillers.** *Clay Miner.*, vol. 39, no. 2, pp. 163-175.

Granot, R., 2004. **Spreading at the Troodos ridge transform intersection – implications for accretion and deformation in 3D of the oceanic crust.** *M. Sc. Thesis, Heb. Univ. Jerusalem, 53 p., appen.*

EGYPT

- Abu El Enem, M.M., Okrusch, M. & Will, T.M., 2004. **Contact metamorphism and metasomatism at a dolerite limestone contact in the Gebel Yelleq area, northern Sinai, Egypt.** *Miner. Petrol., vol. 81, no. 1-2, pp. 135-164.*
- Baioumy, H.M. & Hassan, M.S., 2004. **Authigenic halloysite from El Gideda iron ore, Bahria oasis, Egypt: Characterization and origin.** *Clay Miner., vol. 39, no. 2, pp. 207-217.*
- Bauer, J., Steuber, T., Kuss, J. & Heimhofer, U., 2004. **Distribution of shallow water benthic (rudists, calcareous algae, benthic foraminifers) in the Cenomanian – Turonian carbonate platform sequence of Sinai, Egypt.** *Courier Forsch. Inst. Senckenberg, no. 247, pp. 207-231.*
- Beerten, K. & Stesmans, A., 2004. **Single quartz grain electron spin resonance (ESR) dating a contemporary desert surface deposit, Eastern Desert, Egypt.** *Quaternary Sci. Rev., vol. 24, no. 1-2, pp. 223-231.*
- bishta, A.Z., 2004. **Lithological discrimination of Gabal Qattar Um Disi batholith, north Eastern Desert of Egypt using thematic mapper LANDSAT-7 satellite data.** *Afr. Geosci. Rev., vol. 11, no. 3, pp. 211-225.*
- EL Ayyat, A.A.M. & Kassab, A.S., 2004. **Biostratinomy and facies analysis of the upper Cretaceous oyster storm shell beds of the Duwi Formation, Qusseir district, Red Sea region, Egypt.** *J. Afr. Earth Sci., vol. 39, no. 3-5, pp. 421-428.*
- Elewa, A.M.T., 2004. **Quantitative analysis and palaeoecology of Eocene ostracoda and benthonic foraminifera from Gebel Mokattam, Cairo, Egypt.** *Palaeogeogr. Palaeoclimatol. Palaeoecol., vol. 211, no. 3-4, pp. 309-323.*
- El Nemr, A., El Sikaily, A., Khaled, A., et al., 2004. **Determination of hydrocarbons in mussels from the Egyptian Red Sea coast.** *Environ. Monitoring & Assess., vol. 96, no. 1-3, pp. 251-261.*
- El Saadawy, W.E., Yousef, S.G. & Kamal El Din, M.M., 2004. **Fossil palm woods of Egypt: II. Seven Tertiary palmoxyton species new to the country.** *Rev. Palaeobot. Palynol., vol. 129, no. 4, pp. 199-211.*
- Frihy, O.E. & Dewidar, K.M., 2004. **Patterns of erosion / sedimentation, heavy mineral concentration and grain size to interpret boundaries of littoral sub cells of the Nile Delta, Egypt.** *Mar. Geol., vol. 199, no. 1-2, pp. 27-43.*
- Frihy, O.E., El Ganainy, M.A., El Sayed, W.R. & Iskander, M.M., 2004. **The role of fringing coral reef in beach protection of Hurghada, Gulf of Suez, Red Sea of Egypt.** *Ecol. Eng., vol. 22, no. 1, pp. 17-25.*
- Frihy, O.E., Iskander, M.M., El Moniem, A. & Badr, A., 2004. **Effects of shoreline and bedrock irregularities on the morphodynamics of the Alexandria coast littoral cell, Egypt.** *Geo-Mar. Lett., vol. 24, no. 4, pp. 195-211.*
- Galal, G., 2004. **Graphic correlation for the Cretaceous / Tertiary boundary of the Abu Zenima section, west central Sinai, Egypt.** *Rev. Paleobiol., vol. 23, no. 1, pp. 239-262.*

- Ghandour, I.M., El Hameed, A.T.A., Faris, M., Marzouk, A. & Maejima, W., 2004. **Textural, mineralogical and microfacies characteristics of the lower Paleogene succession at the Nile Valley and Kharga oasis regions, central Egypt.** *J. Geosci., Osaka City Univ.*, vol. 47, no. 39-53.
- Hamza, W., Ennet, P. & Tamsalu, R., 2004. **Simulation of the Egyptian coastal ecosystem functions.** *Maritime Eng.*, vol. 157, no. 1, pp. 23-33.
- Hegazi, A.H., Anderson, J., Abu Elgheit, M.A. & El Gayar, M.S., 2004. **Source diagnostic and weathering indicators of tar balls utilizing acyclic, polycyclic and S-heterocyclic components.** *Chemosphere*, vol. 55, no. 7, pp. 1053-1065.
- Hussein, A.I.M., Boukhary, M. & Kamal, D., 2004. **Nummulites farisi n. sp. (Nummulites Partsci Group) from the Bartonian of El Basatin, Gebel Mokattam, Egypt.** *Rev. Paleobiol.*, vol. 23, no. 1, pp. 169-179.
- Kassab, A.S., Zakhera, M.S. & Obaidalla, N.A., 2004. **Integrated biostratigraphy of the Campanian – Maastrichtian transition in the Nile Valley, southern Egypt.** *J. Afr. Earth Sci.*, vol. 39, no. 3-5, pp. 429-434.
- Kholeif, S.E., 2004. **Paleoenvironmental and paleoclimatological study of the Quaternary from a borehole in Wadi El Natrun area, Western Desert, Egypt: A palynological approach.** *Rev. Paleobiol.*, vol. 23, no. 1, pp. 157-167.
- Kholeif, S.E., 2004. **Palynology and palaeovegetation reconstruction in late Quaternary sediments of the southern Suez Isthmus, Egypt.** *J. Afr. Earth Sci.*, vol. 40, no. 1-2, pp. 31-47.
- lindstaedter, j. & kroepelin, S., 2004. **Wadi Bakht revisited: Holocene climate change and prehistoric occupation in the Gilf Kebir region of the eastern Sahara, SW Egypt.** *Geoarchaeology*, vol. 19, no. 8, pp. 753-778.
- Mamoun, K.M., Soliman, F.A., Shendi, E.H., Khalil, S. & Nakagawa, K., 2004. **Integrated geophysical exploration for sulphide minerals in the Wadi Saal area, south Sinai, Egypt.** *J. Geosci., Osaka City Univ.*, vol. 47, pp. 113-126.
- Mansour, A.S., 2004. **Diagenesis of upper Cretaceous rudist bivalves, Abu Roash area, Egypt: A petrographic study.** *Geol. Croatica*, vol. 57, no. 1, pp. 55-66.
- masoud, A.A., 2004. **Flash flood potential, mitigation, and floodwater resource management integrating remote sensing and GIS technologies in Safaga area, Egypt.** *J. Geosci., Osaka City Univ.*, vol. 47, pp. 21-38.
- Moghazi, A.M., Hassanen, M.A., Mohamed, F.H. & Ali, S., 2004. **Late Neoproterozoic strongly peraluminous leucogranites, south Eastern Desert, Egypt – petrogenesis and geodynamic significance.** *Miner. Petrol.*, vol. 81, no. 1-2, pp. 19-41.
- Ramadan, T.M. & Kontny, A., 2004. **Mineralogical and structural characterization of alteration zones detected by orbital remote sensing at Shalatein district, SE Desert, Egypt.** *J. Afr. Earth Sci.*, vol. 40, no. 1-2, pp. 89-99.
- Scheibner, C., Reijmer, J.J.G., Marzouk, A.M., Speijer, R.P. & Kuss, J., 2004. **From platform to basin: The evolution of a Paleocene carbonate margin (Eastern Desert, Egypt).** *Int. J. Earth Sci.*, Vol. 92, No. 4, Pp. 624-640.
- SCHMITZ, B., PEUCKER-EHRENBRINK, B., HEILMANN-CLAUSEN, C., ABERG, G., ASARO, F. & LEE, C.-T.A., 2004. **Basaltic explosive volcanism, but no comet impact, at the Paleocene – Eocene boundary:**

High resolution chemical and isotopic records from Egypt, Spain and Denmark. *Earth Planet. Sci. Lett.*, vol. 225, no. 1-2, pp. 1-17.

- Sharp, A. & Samuel, A., 2004. **An example study using conventional 3D seismic data to delineate shallow gas drilling hazards from the west delta deep marine concession, offshore Nile Delta, Egypt.** *Petroleum Geoscience*, vol. 10, no. 2, pp. 121-129.
- Weissbrod, T., 2004. **A reassessment of the Naqus Formation in Sinai and the Eastern Desert of Egypt: Stratigraphic and tectonic implications.** *Isr. J. Earth Sci.*, vol. 53, no. 2, pp. 87-97.

IRAN

- Babazadeh, S.A. & De Wever, P., 2004. **Early Cretaceous radiolarian assemblages from radiolarites in the Sistan suture (Eastern Iran).** *Geodiversitas*, vol. 26, no. 2, pp. 185-206.
- Dinpashon, Y., Fakheri-Fard, A., Moghaddam, M., Jahanbakhsh, S. & Mirnia, M., 2004. **Selection of variables for the purpose of regionalization of Iran's precipitation climate using multivariate methods.** *J. Hydrol.*, vol. 297, no. 1-4, pp. 109-123.
- fielding, e., wright, t.j., muller, j., parsons, b.e. & walker, r., 2004. **A seismic deformation of a fold-and-thrust belt imaged by synthetic aperture radar interferometry near Shahdad, southeast Iran.** *Geology*, vol. 32, no. 7, pp. 577-580.
- Ghazi, A.M., Hassanipak, A.A., Mahoney, J. & Duncan, R.A., 2004. **Geochemical characteristics, $^{40}\text{Ar}/^{39}\text{Ar}$ ages and original tectonic setting of the Band-e-Zeyarat / Dar Anar ophiolite, Makran accretionary prism, S.E. Iran.** *Tectonophysics*, vol. 393, no. 1-4, pp. 175-196.
- Kazanci, N., Gulbabazadeh, T., Leroy, S.A.G. & Ileri, O., 2004. **Sedimentary and environmental characteristics of the Gilan – Mazenderan plain, northern Iran: Influence of long and short term Caspian water level fluctuation on geomorphology.** *J. Mar. Systems*, vol. 46, no. 1-4, pp. 145-168.
- Leven, E.J. & Vaziri Mohaddam, H., 2004. **Carboniferous – Permian stratigraphy and fusulinids of eastern Iran. The Permian in the Bag-e-Vang section, (Shirgesht area).** *Riv. Ital. Paleontol. Stratigr.*, vol. 110, no. 2, pp. 441-465.
- Modabberi, S. & Moore, F., 2004. **Environmental geochemistry of Zarshuran Au-As deposit, NW Iran.** *Environ. Geol.*, vol. 46, no. 6-7, pp. 796-807.
- Moussavi Harami, R., Mahboubi, A. & Khanehbad, M., 2004. **Analysis of controls on downstream fining along three gravel-bed rivers in the Band-e-Golestan drainage basin NE Iran.** *Geomorphology*, vol. 61, no. 1-2, pp. 143-153.
- Rangoshay, M. & Shafaii, M.H., 2004. **Petrology, tectonic and geodynamic environment of Nain ophiolitic massif.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 1, pp. 275-278.
- Regard, V., Bellier, O., Thomas, J.C., Abbassi, M.R., Mercier, J., Shabanian, E., Feghhi, K. & Soleymani, S., 2004. **Accommodation of Arabia – Eurasia convergence in the Zagros – Makran transfer zone, SE Iran: A transition**

between collision and subduction through a young deforming system.

Tectonics, vol. 23, no. 4, pp. TC4007, pp. 1-24.

Vaziri, S.H., 2004. **Lower and middle Triassic sediments in the Jajarm area, eastern Alborz, north Iran.** *J. Geosci., Osaka Univ.*, vol. 47, pp. 101-111.

ISRAEL

Asaf, L., Nativ, R., Shain, D., Hassan, M. & Geyer, B., 2004. **Controls on the chemical and isotopic compositions of urban storm water in a semiarid zone.** *J. Hydrol.*, vol. 294, no. 4, pp. 270-293.

Assouline, S. & Shavit, U., 2004. **Effects of management policies, including artificial recharge, on salinization in a sloping aquifer: The Israeli coastal aquifer case.** *Water Resour. Res.*, vol. 40, no. 4, WO4101, pp. 1-13.

Ayalon, A., Bar-Matthews, M. & Schilman, B., 2004. **Rainfall isotopic characteristics at various sites in Israel and the relationship with unsaturated zone water.** *Isr. Geol. Surv., Rep. GSI/16/2004*, 37 p., figs., tabs.

Ayalon, A., Vaks, A., Bar-Matthews, M. & Halicz, L., 2004. **Paleoclimate conditions in the central and northern Negev during the Pleistocene.** *Isr. Geol. Surv., Tech. Rep. TR-GSI/17/2003*, no paging. (Annu. Rep., Submitted to the Ministry of National Infrastructures).

Bar-Matthews, M., Amit, R., Kuperman, G. & Ayalon, A., 2004. **Reconstruction of flood periods and hydrological – paleohydrological analysis of Nahal Hazera, northern Arava region.** (In Hebrew). *Isr. Geol. Surv., Tech. Rep. TR-GSI/18/2004*, 7 p., tabs. (Annu. Rep., Submitted to the Ministry of National Infrastructures).

Bartov, Y. & Sagy, A., 2004. **Late Pleistocene extension and strike slip in the Dead Sea basin.** *Geol. Mag.*, vol. 141, no. 5, pp. 565-572.

Begin, Z.B., Stein, M., Katz, A., Machlus, M., Rosenfeld, A., Buchbinder, B. & Bartov, Y., 2004. **Southward migration of rain tracks during the last glacial, revealed by salinity gradient in Lake Lisan (Dead Sea Rift).** *Quaternary Sci. Rev.*, vol. 23, no. 14-15, pp. 1627-1636.

Ben Zvi, A. & Calvo, R., 2004. **Assessment of the surface flow volumes into the Dead Sea. Stage B.** (In Hebrew). *Isr. Geol. Surv., Rep. TR-GSI/11/2004*, 2 p., appen.

Blumberg, D.G., Neta, T., Margalit, N., Lazar, M. & Freilikher, V., 2004. **Mapping exposed and buried drainage systems using remote sensing in the Negev Desert, Israel.** *Geomorphology*, vol. 61, no. 3-4, pp. 239-250.

Cohen, Y., 2004. **Satellite images and GIS updating agricultural information: The knowledge-based system approach.** *Horizons in Geography*, no. 60-61, pp. 215-226. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).

Conway, B.H., 2004. **Variation in overburden thickness at the threshold of the oil window in boreholes from southern and central Israel and the adjacent offshore realm as indicated by thermal alteration indices (TAI) analysis.** *Isr. Geol. Surv., Tech. Rep., TR-GSI/14/2004*, 14 p.

Ehrlich, S., Butler, I., Halicz, L., Rickard, D., Oldroyd, A. & Matthews, A., 2004. **Experimental study of the copper isotope fractionation between aqueous Cu(II) and covellite, CuS.** *Chem. Geol.*, vol. 209, no. 3-4, pp. 259-269.

- Ehrlich, S., Harlavan, Y., Bar-Matthews, M. & Halicz, L., 2004. **Lead and uranium isotopic behavior in diagenetic and epigenetic manganese nodules, Timna basin, Israel, determined by MC-ICP-MS.** *Appl. Geochem.*, vol. 19, no. 12, pp. 1927-1936.
- El Nakhal, H.A., 2004. **Alternatives to tap water: A case study of the Gaza Strip, Palestine.** *Environ. Geol.*, vol. 46, no. 6-7, pp. 851-856.
- Erel, Y., Blum, J.D., Roueff, E. & Ganor, J., 2004. **Lead and strontium isotopes as monitors of experimental granitoid mineral dissolution.** *Geochim. Cosmochim. Acta*, vol. 68, no. 22, pp. 4649-4663.
- Eyal, Y. & Voznesensky, V., 2004. **Lineament study from satellite images of several sites in Israel.** *Report, Submitted to the Ministry of National Infrastructures*).
- Frechen, M., Neber, A., Tsatskin, A., et al., 2004. **Chronology of Pleistocene sedimentary cycles in the Carmel coastal plain of Israel.** *Quaternary Int.*, vol. 121, no. 1, pp. 41-52.
- Gavrieli, I., 2004. **The evolution of the Dead Sea, past present and future, and the proposed "peace conduit".** *Horizons in Geography*, no. 60-61, pp. 163-165. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).
- Gendler, M., Binkin, I. & Reznikov, M., 2004. **Improving fluid factor estimation using special tuning of mud rock line parameters.** *Lod, The Geophysical Inst., Rep. 857/091/04, 12 p.* (Prepared for the Ministry of National Infrastructures).
- Goldreich, Y., 2004. **Spatial distribution of mid-season rainfall date in Israel – a review.** *Horizons in Geography*, no. 60-61, pp. 177-182. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).
- Goldreich, Y., Mozes, H. & Rosenfeld, D., 2004. **Radar analysis of cloud systems and their rainfall yield in Israel.** *Isr. J. Earth Sci.*, vol. 53, no. 2, pp. 63-76.
- Goren, H., 2004. **How low is the lowest point on Earth? The story of determining the level of the Dead Sea.** *Horizons in Geography*, no. 60-61, pp. 147-162. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).
- Guitton, A. & Claerbout, J., 2004. **Interpolation of bathymetry data from the Sea of Galilee: A noise attenuation problem.** *Geophysics*, vol. 69, no. 2, pp. 608-616.
- Guttman, J., 2004. **The hydrogeology and the flow pattern of the mountain aquifers in northern Samaria.** (In Hebrew). *Judea & Samaria – Research Studies*, vol. 13, ed. by Y. Eshet. Ariel, The College of Judea & Samaria, pp. 363-373.
- harlavan, y. & sandler, A., 2004. **The use of extraction methods for the determination of natural background levels of selected soils.** (In Hebrew). *Isr. Geol. Surv., Tech. Rep. TR-GSI/13/2004, 36 p., figs.*
- Hatzor, Y., Arzi, A.A., Zaslavsky, Y. & Shapira, A., 2004. **Dynamic stability analysis of jointed rock slopes using DDA method: King Herod's Palace, Masada, Israel.** *Int. J. Rock Mech. Min. Sci.*, vol. 41, no. 5, pp. 813-832.
- herut, b., shefer, e. & cohen, Y., 2004. **Quality of Mediterranean coastal waters of Israel in 2003.** (In Hebrew). *Isr. Oceanogr. Limnol. Res.*, Rep. H23/2004, various paging.
- Icekson-Tal, N., Michail, M., Avraham, O., Sherer, D. & Shoham, G., 2004. **Dan region reclamation project: Groundwater recharge with municipal**

- effluent. Recharge basins: Soreq, Yavne 1, Yavne 2, Yavne 3 & Yavne 4 - 2003.** *Mekorot, Water Co., Central District, Dan Region Unit, 166 p.*
- Inbar, M., 2004. **Natural hazards in Israel, 1948-2004: A temporal and spatial analysis.** *Horizons in Geography, no. 60-61, pp. 139-146. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).*
- Israel. Hydrological Service, 2004. **Development, exploitation and groundwater resources in Israel till autumn 2003.** (In Hebrew). *Isr. Hydrol. Serv., 335 p., maps.*
- ISRAEL., HYDROLOGICAL SERVICE, 2004. **Maps of hydrological sensitivity for waste water irrigation in Israel: Principles of status.** (In Hebrew). *Isr. Hydrol. Serv., Rep. HYDRO/2/2004, 14 p., maps.*
- Karcz, I., 2004. **Implications of some early Jewish sources for estimates of earthquake hazard in the Holy Land.** *Ann. Geophys., vol. 47, no. 2-3, pp. 759-792.*
- Katz, O. & Pinhassi, G., 2004. **Risk assessment of slope slinding during earthquake in the Haifa area and northern Carmel. Interim report.** (In Hebrew). *Isr. Geol. Surv., Rep. TR-GSI/08/2004, 13 p., figs. (Submitted to the Earthquakes Steering Committee).*
- Kelman, E., Shoshany, M. & Sonis, M., 2004. **Mathematical modeling and analysis of shoreline changes.** *Horizons in Geography, no. 60-61, pp. 195-202. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).*
- Keydar, S. & Pelman, D., 2004. **A new approach to subsurface depth model construction using refraction waves in irregular topography areas.** *Lod, The Geophysical Inst., Rep. 672/090/04, 17 p. (Prepared for the Ministry of National Infrastructures).*
- khesin, b. & feinstein, S., 2004. **Magnetic characteristics of mottled zone areas in Israel, First year report, 13 p., figs.** (Report, Submitted to the Ministry of National Infrastructures).
- Klein, M., Lichter, M. & Zviely, D., 2004. **Recent sea-level changes along Israeli and Mediterranean coasts.** *Horizons in Geography, no. 60-61, pp. 167-176. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).*
- Klein-Bendavid, O., Sass, E. & Katz, A., 2004. **The evolution of marine evaporitic brines in inland basins: The Jordan – Dead Sea Valley.** *Geochim. Cosmochim. Acta, vol. 68, no. 8, pp. 1763-1775.*
- Kliot, N. & Hophmayer-Tokich, S., 2003. **Environmental pollution by waste water – aspects of environmental justice.** *Jerusalem Inst. for Israel Studies, Center for Environ. Policy, Rep. No. 3, 219 p.*
- Kurpan, J., Gitterman, Y., Perelman, N. & Ben Avraham, Z., 2004. **Discrimination of seismic events from several specific areas in Israel and its vicinity recorded by the national seismic network.** *Lod, The Geophysical Inst., Rep. 522/083/04, 48 p. (Prepared for the Ministry of National Infrastructures).*
- Kutiel, P., 2004. **Landscape changes in the Israeli Mediterranean region: Ecological implications and management tools.** *Horizons in Geography, no. 60-61, pp. 203-212. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).*
- Kutiel, H. & Helfman, I., 2004. **The impact of central African – Caspian oscillation (CACO) on climate regimes in the Red Sea region.** *Horizons in Geography, no. 60-61, pp.183-194. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).*

- Laronne Ben Itzhak, L. & Gvirtzman, H., 2004. **Groundwater low beneath the Judean Desert: A 3-dimensional numerical model.** (In Hebrew). *Judea & Samaria – Research Studies*, vol. 13, ed. by Y. Eshel. Ariel, The College of Judea & Samaria, pp. 355-361
- Minster, T. & Ilani, S., 2004. **Abandoned quarries at the Ashdod and Gedera sheets (1:50,000): Geological and environmental survey as an infrastructure for their rehabilitation.** (In Hebrew). *Isr. Geol. Surv., Rep. GSI/19/2004*, 143, pts., tabs. (Prepared for the Quarry Rehabilitation Fund).
- Naor, H., Granit, Y., Zurieli, A. & Burg, A., 2004. **Southern Arava, Updating of the hydrological, geochemical and operational conditions of the aquifers and boreholes for the year 2003. Operation forecast for 2007 and recommendations for drilling new boreholes.** (In Hebrew). *Tel Aviv, Tahal*, 62 p., appen., figs., maps, tabs
- Nativ, R., 2004. **Can the desert bloom? Lessons from the Israeli case.** *Ground Water*, vol. 42, no. 5, pp. 651-657.
- Nissenbaum, A., 2004. **“... And the vale of Siddim was full of slime [= bitumen, asphalt?] pits” (Genesis, 14:10).** *Geochemical Investigations in Earth and Space Science: A tribute to Isaac R. Kaplan*, ed. by R.J. Hill, et al. *The Geochemical Society, Publ. 9*, pp. 359-365.
- Oren, O., Gavrieli, I., Burg, A. & Lazar, B., 2004. **The chemical modification and Mn enrichment in the groundwater around the Shafdan plant, Summary report for the first year.** (In Hebrew, Engl. Abstr.). *Isr. Geol. Surv., Rep. GSI/22/2004*, 17 p., appen
- Peeri, S., Zebker, H.A., Ben Avraham, Z., Frumkin, A. & Hall, J.K., 2004. **Spatially-resolved uplift rate of the Mount Sedom (Dead Sea) salt diapir from INSAR observations.** *Isr. J. Earth Sci.*, vol. 53, no. 2, pp. 99-106.
- Peled, A., 2004. **Updating the Israeli national GIS database.** *Horizons in Geography*, no. 60-61, pp. 227-236. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).
- Plakht, J., 2004. **Pebble units in the lower Nahal Zin area: Environmental interpretation.** *Isr. J. Earth Sci.*, vol. 53, no. 2, pp. 107-114.
- rosenfeld, d. & lahav, R., 2004. **Planning, carrying out and evaluation of new methods in cloud seeding. Progress report for the year 2003/04.** (In Hebrew). *Heb. Univ. Jerusalem, Atmos. Dept., Annu. Rep.*, 52 p.
- Sandler, A., Burg, A. & Guttman, J., 2004. **Incidental suspended matter in drinking water wells (Mekorot): Composition and explanation. Progress Report no. 1.** (In Hebrew). *Isr. Geol. Surv., Tech. Rep. TR-GSI/15/2004*, 13 p. (Submitted to Mekorot Co.).
- Sandler, A., Harlavan, Y. & Shaliv, G., 2004. **The stratigraphy of Neogene conglomerates in the Yizre'el Valley.** *Isr. J. Earth Sci.*, vol. 53, no. 2, pp. 77-86.
- Schilman, B., Teplyakov, N. & Gavrieli, I., 2004. **Identification of nitrate contamination sources in groundwater using nitrogen and oxygen isotopes in nitrate: Wadi Kelt – Jericho area as a case study.** (In Hebrew). *Isr. Geol. Surv., Rep. GSI/25/2004*, 10 p., figs. (Annu. Rep., Submitted for the Ministry of National Infrastructures).
- Schodlok, M., 2004. **Quantitative analysen magmatischer gesteine mittels reflexionsspektroskopischer infrarot - messungen.** *Potsdam, Geoforschuns Zentrum, Sci. Tech. Rep. STR04/10*, 127 p. (Ph. D. Thesis, Potsdam Univ.).

- Shaked, Y., Agnon, A., Lazar, B., Marco, S., Avner, U. & Stein, M., 2004. **Large earthquakes kill coral reefs at the north west Gulf of Aqaba.** *Terra Nova*, vol. 16, no. 3, pp. 133-138.
- Shmueli, D., Ben Gai, M. & Gasul, D., 2004. **Conflict assessment as a tool in environmental dispute management and resolution.** *Horizons in Geography*, no. 60-61, pp.89-98. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).
- Shoshany, M., 2004. **Remote sensing of landscape changes: A synthesis of case studies in the Israeli Mediterranean region.** *Horizons in Geography*, no. 60-61, pp.237-246. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).
- Singer, A., Dultz, S. & Argaman, E., 2004. **Properties of the non-soluble fractions of suspended dust over Dead Sea.** *Atmos. Environ.*, vol. 38, no. 12, pp. 1745-1753.
- Sivan, D. & Porat, N., 2004. **Evidence from luminescence for late Pleistocene formation of Calcareous aeolianite (Kurkar) and paleosol (Hamra) in the Carmel coast, Israel.** *Palaeogeogr. Palaeoclimatol. Palaeoecol.*, vol. 211, no. 1-2, pp. 95-106.
- Sneh, A., Wollman, S., Hoyland, S., Levitte, D. & Bein, A., 2004. **Vulnerability of the coastal aquifer (Israel) to pollution from road runoff and other surface pollutants.** *Isr. Geol. Surv., Rep. GSI/23/2004*, 19 p., appen. (Prepared for the Ministry of the Environment & the Public Works Dept.).
- Svoray, T., 2004. **Geographic data fusion for the determination of drainage structure.** *Horizons in Geography*, no. 60-61, pp. 255-264. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).
- Wald, R., 2004. **Stratigraphy and paleoecology of the Avnon / Tamar cycle, northern Negev, Israel.** *Final Report, Submitted to Ministry of National Infrastructures*, 74 p. (M. Sc. Thesis, Ben Gurion Univ.).
- Wdowinski, S., Bock, Y., Baer, G., Prawirodirdjo, L., Bechor, N., Naaman, S., Knafo, R., Forrai, J. & Melzer, Y., 2004. **GPS measurements of current crustal movements along the Dead Sea fault.** *J. Geophys. Res., Ser. B*, vol. 109, no. B5, B05403, pp. 1-16.
- Weinstein, I., 2004. **Liquefaction potential of the southern Coastal Plain, Israel.** (In Hebrew). *M. Sc. Thesis, Ben Gurion Univ.*, 138 p.
- WITTENBERG, L., GREENBAUM, N., PAZ, S. & KUTIEL, H., 2004. **Frequency of large floods in the eastern Mediterranean region: A comparison between two 12-year periods – Nahal Oren, Mt. Carmel, Israel.** *Horizons in Geography*, no. 60-61, pp. 129-138. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).
- Wollman, S., Yechieli, Y., Lyakhovskiy, V. & Bein, A., 2004. **Summary of results for test pumping in Nahal Arugot. Dead Sea sinkholes project: Stage B.** (In Hebrew). *Isr. Geol. Surv., Rep. GSI/42/2003*, 10 p., appen.
- Zilberman, E., Amit, R., Bruner, I. & Nachmias, Y., 2004. **Neotectonic and paleoseismic study – Bet Shean Valley.** *Isr. Geol. Surv., Rep. GSI/15/2004*, 37 p., figs.
- Zissu, B. & Weiss, D., 2004. **A church and a water system at Ein Koby in the Jerusalem mountains.** (In Hebrew). *Judea & Samaria – Research Studies*, vol. 13, ed. by Y. Eshel. Ariel, The College of Judea & Samaria, pp. 177-188.
- Zviely, D. & Ronen, A., 2004. **Garrod's spring in Tabun Cave, Mt. Carmel (Israel): 70 years later.** *Horizons in Geography*, no. 60-61, pp. 247-254. (Spec. Issue, ed. by J.O. Maos, M. Inbar, D.F. Shmueli).

JORDAN

- Al Asheh, S., Banat, F. & Masad, A., 2004. **Kinetics and equilibrium sorption studies of 4-nitrophenol on pyrolyzed and activated oil shale residue.** *Environ. Geol.*, vol. 45, no. 8, pp. 1109-1117.
- Al Taj, M.M., Al Bataina, B.A. & Atallah, M., 2004. **Evaluation of geodynamic activity of the Dead Sea transform fault by radon gas concentrations.** *Environ. Geol.*, vol. 46, no. 5, pp. 574-582.
- Diabat, A.A., Atallah, M. & Salih, M.R., 2004. **Paleostress analysis of the Cretaceous rocks in the eastern margin of the Dead Sea Transform, Jordan.** *J. Afr. Earth Sci.*, vol. 38, no. 5, pp. 449-460.
- El Naqa, A., 2004. **A comparative review in regards to estimating bearing capacity in jointed rock masses in northeast Jordan.** *Bull. Eng. Geol. Environ.*, vol. 63, no. 3, pp. 233-245.
- El Naqa, A. & Al Kuisi, M., 2004. **Hydrochemical modeling of the water seepages through Tannur Dam, southern Jordan.** *Environ. Geol.*, vol. 45, no. 8, pp. 1087-1100.
- HUNT, C.O., ELRISHI, H.A., GILBERTSON, D.D., GRATTAN, J.P., McLAREN, S.J., Pyatt, F.B., Rushworth, G. & Barker, G.W., 2004. **Early Holocene environments in the Wadi Faynan, Jordan.** *The Holocene*, vol. 14, no. 6, pp. 921-930.
- IBRAHIM, K.M. & AKASHAH, T., 2004. **Lead removal from wastewater using Fauja site tuff.** *Environ. Geol.*, vol. 46, no. 6-7, pp. 865-870.
- Jaradat, Q.M., Momani, K.A., Jbarah, A.Q. & Massadeh, A., 2004. **Inorganic analysis of dust fall and office dust in an industrial area of Jordan.** *Environ. Res.*, vol. 96, no. 2, pp. 139-144.
- Salameh, E., 2004. **Using environmental isotopes in the study of the recharge – discharge mechanisms of the Yarmouk catchment area in Jordan.** *Hydrogeol. J.*, vol. 12, no. 4, pp. 451-463.
- Salman, A.Z. & Al Karablieh, E.K., 2004. **Measuring the willingness of farmers to pay for groundwater in the highland areas of Jordan.** *Agric. Water Manage.*, vol. 68, no. 1, pp. 61-76.
- Schulze, F.E., Lewy, Z., Kuss, J. & Gharaibeh, A., 2004. **Cenomanian – Turonian carbonate platform deposits in west central Jordan.** *Int. J. Earth Sci.*, vol. 92, no. 4, pp. 641-660.
- SCHULZE, F.E., MARZOUK, A.M., BASSIOUNI, M.A.A. & KUSS, J., 2004. **The late Albian – Turonian carbonate platform succession of west-central Jordan: Stratigraphy and crises.** *Cretaceous Res.*, vol. 25, no. 5, pp. 709-737.
- Viles, H.A. & Goudie, A.S., 2004. **Biofilms and case hardening on sandstones from Al Quwayra, Jordan.** *Earth Surface Processes & Landforms*, vol. 29, no. 12, pp. 1473-1485.
- Weinberger, R., Margalit, N., Ilani, S. & Harlavan, Y., 2004. **Mapping and dating of field relationship of the Harrat Ash Shaam volcanics in NE Jordan using multi channel remote sensing.** (In Hebrew). *Isr. Geol. Surv., Rep. GSI/09/2004*, 35 p., figs.
- Wrede, V., 2004. **Mineralfunde in Jordanien.** *Aufschluss*, vol. 55, pp. 269-281.

LEBANON

- Abdel Rahman, A.F.M. & Nassar, P.E., 2004. **Cenozoic volcanism in the Middle East: Petrogenesis of alkali basalts from northern Lebanon.** *Geol. Mag.*, vol. 141, no. 5, pp. 545-563.
- Karnib, A., 2004. **An approach to elaborate priority preorders of water resources projects based on multi criteria evaluation and fuzzy sets analysis.** *Water Resour. Manage.*, vol. 18, no. 1, pp. 13-33.
- Larghi, C., 2004. **Brachyuran decapod Crustacea from the upper Cretaceous of Lebanon.** *J. Paleontol.*, vol. 78, no. 3, pp. 528-541.
- Nader, F.H. & Swennen, R., 2004. **The hydrocarbon potential of Lebanon: New insights from regional correlations and studies of Jurassic dolomitization.** *J. Pet. Geol.*, vol. 27, no. 3, pp. 253-275.
- Perez, T., Vacelet, J., Bitar, G. & Zibrowius, H., 2004. **Two new lithistids (Porifera: Demospongiae) from a shallow eastern Mediterranean cave (Lebanon).** *Mar. Biol. Assoc. of the U.K., J.*, vol. 84, no. 1, pp. 15-24.

MEDITERRANEAN SEA

- Costa, E., Camerlenghi, A., Polonia, A., Cooper, C., Fabretti, P., Mosconi, A., Murelli, P., Romanelli, M., Sormani, L. & Wardell, N., 2004. **Modeling deformation and salt tectonics in the eastern Mediterranean ridge accretionary wedge.** *Geol. Soc. Am., Bull.*, vol. 116, no. 7-8, pp. 880-894.
- Hardie, L.A. & Lowenstein, T.K., 2004. **Did the Mediterranean Sea dry out during the Miocene? A reassessment of the evaporite evidence from DSDP legs 13 and 42A cores.** *J. Sediment. Res.*, vol. 74, no. 4, pp. 453-461.
- Hasanean, H.M., 2004. **Precipitation variability over the Mediterranean and its linkage with El Nino southern oscillation (ENSO).** *J. Meteorol.*, vol. 29, no. 289, pp. 151-160.
- Kocak, M., Nimmo, M., Kubilay, N. & Herut, B., 2004. **Spatio temporal aerosol trace metal concentrations and sources in the Levantine basin of the eastern Mediterranean.** *Atmos. Environ.*, vol. 38, no. 14, pp. 2133-2144.
- Lykousis, V., Alexandri, S., Woodside, J., Nomikou, P., Perissoratis, C., Sakellariou, D., De Lange, G.J., Dahlmann, A., Casas, D., Rousakis, G., Ballas, D. & Ioakim, C., 2004. **New evidence of extensive active mud volcanism in the Anaximander mountains (eastern Mediterranean): The "Athina" mud volcano.** *Environ. Geol.*, vol. 46, no. 8, pp. 1030-1037
- Manca, B., Burca, M., Giorgetti, A. et al., 2004. **Physical and biochemical averaged vertical profiles in the Mediterranean regions: An important tool to trace the climatology of water masses and to validate incoming data from operational oceanography.** *J. Mar. Systems*, vol. 48, no. 1-4, pp. 83-116.
- Scrivner, A.E., Vance, D. & Rohling, E.J., 2004. **New neodymium isotope data quantify Nile involvement in Mediterranean anoxic episodes.** *Geology*, vol. 32, no. 7, pp. 565-568.
- Thomson, J., Crudeli, D., De Lange, G.J., Slomp, C.P., Erba, E., Corselli, C. & Calvert, S.E., 2004. **Florisphaera profunda and the origin and diagenesis of carbonate phases in eastern Mediterranean sapropel units.** *Paleoceanography*, vol. 19, no. 3, PA3003, pp. 1-19.

MIDDLE EAST

- Allen, M., Jackson, J. & Walker, R., 2004. **Late Cenozoic reorganization of the Arabia – Eurasia collision and the comparison of short-term and long-term deformation rates.** *Tectonics*, vol. 23, no. 2, TC2008, pp. 1-16.
- Hafkenscheid, E., 2004. **Subduction of the Tethys oceans reconstructed from plate kinematics and mantle tomography.** *Geol. Ultraiectina*, no. 241, 200 p.
- Robertson, A., 2004. **Development on concepts concerning the genesis and emplacement of Tethyan ophiolites in the eastern Mediterranean and Oman regions.** *Earth Sci. Rev.*, vol. 66, no. 3-4, pp. 331-389.
- Seeling, J., Colin, J.P. & Fauth, G., 2004. **Global Campanian (upper Cretaceous) ostracod palaeobiogeography.** *Palaeogeogr. Palaeoclimatol. Palaeoecol.*, vol. 213, no. 3-4, pp. 379-398.

RED SEA

- El Nemr, A., El Sikaily, A., Khaled, A., Said, T.O. & Abd Allah, A.M.A., 2004. **Chlorinated pesticides and polychlorinated biphenyls in the coral reef skeleton of the Egyptian Red Sea coast.** *Bull. Environ. Contam. Toxicol.*, vol. 72, no. 6, pp. 1195-1202.
- Lazar, B., Enmar, R., Schossberger (Finzi), M., Bar-Matthews, M., Halicz, L. & Stein, M., 2004. **Diagenetic effects on the distribution of uranium in live and Holocene corals from the Gulf of Aqaba.** *Geochim. Cosmochim. Acta*, vol. 68, no. 22, pp. 4583-4593.
- Manasrah, R., Bardan, M., Lass, H. & Fennel, W., 2004. **Circulation and winter deep water formation in the northern Red Sea.** *Oceanologia*, vol. 46, no. 1, pp. 5-23.
- Ottolini, L., Le Fevre, B. & Vannucci, R., 2004. **Direct assessment of mantle boron and lithium contents and distribution by SIMS analyses of peridotite minerals.** *Earth Planet. Sci. Lett.*, vol. 228, no. 1-2, pp. 19-36.
- Seeberg-Elverfeldt, I.A., Lange, C.B., Arz, H.W., Paetzold, J. & Pike, J.G., 2004. **The significance of diatoms in the formation of laminated sediments of the Shaban Deep, northern Red Sea.** *Mar. Geol.*, vol. 209, no. 1-4, pp. 279-301
- Seeberg-Elverfeldt, I.A., Lange, C.B., & Paetzold, J., 2004. **Preservation of siliceous microplankton in surface sediments of the northern Red Sea.** *Mar. Micropaleontol.*, vol. 51, no. 3-4, pp. 193-211.
- Smeed, D.A., 2004. **Exchange through the Bab El Mandab.** *Deep Sea Res., Pt. II*, vol. 51, no. 4-5, pp. 455-474.

TURKEY

- Akinci, O.T., 2004. **The porphyry copper deposits of Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1375-1378.
- Algan, O., Balkis, N., Cagatay, M.N. & Sari, E., 2004. **The sources of metal contents in the shelf sediments from the Marmara Sea, Turkey.** *Environ. Geol.*, vol. 46, no. 6-7, pp. 932-950.
- Altindag, R., Alyildiz, I.S. & Onargan, T., 2004. **Mechanical property degradation of ignimbrite subjected to recurrent freeze-thaw cycles.** *Int. J. Rock Mech. Min. Sci.*, vol. 41, no. 6, pp. 1023-1028.

- Bascetin, A., 2004. **An application of the analytic process in equipment selection at Orhaneli open pit coal mine.** *Inst. Min. Metal., Trans., G.B., Sect. A., vol. 113, no. 3, pp. 192-199.*
- Bayraktutan, M.S. & Imamverdiyev, N.A., 2004. **Evaluation of late Cenozoic orogenic volcanism of the Anatolian – Caucasus – NW Iranian segments of the Mediterranean belt (petrological and geochemical aspects).** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1269-1271.*
- Besiktepe, S.T., Tang, K.W., Vila, M. & Simo, R., 2004. **Dimethylated sulfur compounds in seawater, seston and mesozooplankton in the seas around Turkey.** *Deep Sea Res., Pt. I, vol. 51, no. 9, pp. 1179-1197.*
- Bozkaya, O., Gursu, S. & Goncuoglu, M.C., 2004. **Diagenetic to very low grade metamorphic evolution of Precambrian – Mesozoic units in the Sandikli area, western Taurides, Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1098-1101.*
- Cengiz, O., Sener, E. & Yagmurlu, F., 2004. **Tectonic lineaments and circular structures associated with Golcuk volcanism (Isparta, SW Turkey).** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1272-1275.*
- Cengiz, O. & Unsal, A., 2004. **Terra Rossa deposits of Pinarbasi (Yenisarbademli – Isparta, SW Turkey) district: A preliminary result.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1591-1594.*
- Colak, K. & Unlu, T., 2004. **Effect of transverse anisotropy on the Hoek-Brown strength parameter $\langle m_i \rangle$ for intact rocks.** *Int. J. Rock Mech. Min. Sci., vol. 41, no. 6, pp. 1045-1052.*
- Colakoglu, A.R., Murakami, H. & Arikal, T., 2004. **Geology of the Samli Fe-Cu skarn deposit (western Turkey).** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1595-1596.*
- Dalgic, A. & Karakus, A., 2004. **A computerised study on the natural ventilation characteristics of the Guleman Kef chromium mine.** *Inst. Min. Metal., Trans., G.B., Sect. A, vol. 113, no. 3, pp. 153-162.*
- Demir, H., Otay, E.N., Work, P.A. & Borekci, O.S., 2004. **Impacts of dredging on shoreline change.** *J. Waterway, Port, Coastal & Ocean Eng., ACSE, vol. 130, no. 4, pp. 170-178.*
- Ergin, M., Aktar, M. & Eyidogan, H., 2004. **Present-day seismicity and seismotectonics of the Cilician basin: Eastern Mediterranean region of Turkey.** *Seismol. Soc. Am., Bull., vol. 94, no. 3, pp. 930-939.*
- Fenerci-Masse, M., 2004. **Campanian – Maastrichtian rudists from the western Pontides (NW Turkey): New findings and their palaeogeographic significance.** *Courier Forsch. Inst. Senckenberg, no. 247, pp. 89-111.*
- Flerit, F., Armijo, R., King, G. & Meyer, B., 2004. **The mechanical interaction between the propagating North Anatolian Fault and the back-arc extension in the Aegean.** *Earth Planet. Sci. Lett., vol. 224, no. 3-4, pp. 347-362.*
- Goncuoglu, M.C., Boncheva, I. & Goncuoglu, Y., 2004. **First discovery of middle Tournaisian conodonts in the Griotte-type nodular pelagic limestones, Istanbul area, NW Turkey.** *Riv. Ital. Paleontol. Stratigr., vol. 110, no. 2, pp. 431-439.*
- Gultekin, A.H. & Orgun, Y., 2004. **A review of the geology, mineralization and geochemistry of the Arapucan argentiferous Pb-Zn-Cu deposit, Canakkale,**

- Turkey. 5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1398-1401.**
- Gurbuz, C., Turkelli, N., Bekler, T., Gok, R., Sandvol, E., Seber, D. & Barazangi, M., 2004. **Seismic event location calibration using the eastern Turkey broadband seismic network: Analysis of the Agri Dam explosion.** *Seismol. Soc. Am., Bull.*, vol. 94, no. 3, pp. 1166-1171.
- ILBEYLI, N., 2004. **Correlation of mantle sources for collision related intrusives in central and western Anatolia, Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1129-1130.*
- Inaner, H., 2004. **Lignite deposits of SW Turkey. Quality characteristics with emphasis on total sulphur variations** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1406-1407.*
- Isik, M.A. & Colakoglu, A.R., 2004. **Relations between alkaline magmatism and ore forming processes in the Divrigi (Sivas – central Anatolia).** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1597-1600.*
- Isik, V., 2004. **Metamorphism and structure of eastern Alanya metamorphites, southern Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1139-1141*
- Isik, V., Gursu, S., Goncuoglu, C. & Seyitoglu, G., 2004. **Deformational and geochemical features of syn-tectonic Koyunoba and Egrigoz granitoids, western Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1143-1146.*
- Kara, V., Yemen, H., Coban, H. & Flower, M.F.J., 2004. **Heat flow distribution of Izmir, Aydin and Manisa districts, W. Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1284-1286.*
- Karaoglu, O., Ozdemir, Y. & Tolluoglu, A.U., 2004. **Physical evolution, ignimbrite emplacement and characteristic eruption types of Nemrut stratovolcani: A caldera system at eastern Anatolia, Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1287-1290.*
- Karsli, O., Aydin, F., Sadiklar, M.B., Altherr, R. & Uysal, I., 2004. **High degree hybridisation in Eocene aged granites, NE Turkey: As indicator of oxygen fugacity from magic microgranular enclaves and host rocks.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1147-1150.*
- Kekovali, K., 2004. **Geothermal potential in eastern Anatolia, Turkey, comparing with seismicity and tectonic structure.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1291-1294.*
- Kentli, B. & Topal, T., 2004. **Assessment of rock slope stability for a segment of the Ankara – Pozanti motorway, Turkey.** *Eng. Geol.*, vol. 74, no. 1-2, pp. 73-90.
- Koca, M.Y. & Kincal, C., 2004. **Abandoned stone quarries in and around the Izmir City centre and their geo-environmental impacts – Turkey.** *Eng. Geol.*, vol. 75, no. 1, pp. 49-67.
- Konak, G., Onur, A.H., Karakus, D., Koese, H., Koca, Y. & Yenice, H., 2004. **Slope stability analysis and slide monitoring by inclinometer readings: Part II.** *Inst. Min. Metal., Trans., G.B., Sect. A, vol. 113, no. 3, pp. 171-180.*
- Kurt, P.B. & Ozkoc, H.B., 2004. **A survey to determine levels of chlorinated pesticides and PCBs in mussels and seawater from the mid Black Sea coast of**

- Turkey. *Mar. Pollut. Bull.*, vol. 48, no. 11-12, pp. 1076-1083.** McNEIL, L.C., MILLE, A., MINSHULL, T.A., BULL, J.M. & KENYON, N.H., 2004. **Extension of the North Anatolian Fault into the north Aegean trough: Evidence for transtension, strain partitioning, and analogues for Sea of Marmara basin models. *Tectonics*, vol. 23, TC2016, pp. 1-12.**
- Manav, H. & Gultekin, A.H., 2004. **Geochemical characteristics of the dolerite dykes from the Harmancik ophiolite, western Anatolia, Turkey. *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1171-1174.**
- Masse, J.P., Ozer, S. & Fenerci-Masse, M., 2004. **Upper Barremian – lower Aptian rudist faunas from the western Black Sea region (Turkey). *Courier Forsch. Inst. Senckenberg*, no. 247, pp. 75-88.**
- Nielsen, J.K. & Gormus, M., 2004. **Ichnotaxonomy and ethology of borings in shallow-marine benthic foraminifers from the Maastrichtian and Eocene of northwestern and southwestern Turkey. *Riv. Ital. Paleontol. Stratigr.*, vol. 110, no. 2, pp. 493-501.**
- Onal, A., Boztug, D., Arslan, M., Spell, T., Kurum, S. & Onal, A., 2004. **Geochemistry and ⁴⁰Ar/³⁹Ar geochronology of the felsic and mafic lava flows in the Orduzu (Malataya) volcanic cone from the widespread Neogene Yamadag volcanism, eastern Anatolia, Turkey. *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1302-1305.**
- Onur, A.H., Konak, G., Koca, Y., Yenice, H., Koese, H. & Karakus, D., 2004. **Evaluation and monitoring an on-going landslide in volcanic sediments – a case study for an open pit mine, Turkey: Part I. *Inst. Min. Metal., Trans., G.B., Sect. A.*, vol. 113, no. 3, pp. 163-170.**
- Orgun, Y., Gultekin, A.H., Cevik, E. & Copuroglu, M., 2004. **Mineralogic and geochemical characteristics of the Orhanelli dunite and its importance in point of olivine, Orhanelli – Bursa, western Anatolia, Turkey. *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1193-1196.**
- Ozdamar, S., Uz, B., Esenli, F. & Ketenci, F., 2004. **High-K metalvolcanic rocks of Ilgin (Konya) area, Turkey. *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1201-1203.**
- Ozgur, N., Graf, W., Stichler, W. & Wolf, M., 2004. **Origin of high sulfate contents in the thermal waters of Kizildere and environs, western Anatolia, Turkey. *5th Int. Symp. on Eastern Mediterranean geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1306-1309.**
- ozpinar, y., semiz, b. & kaya, A., 2004. **Petrochemical investigation of volcanics in Usak regions (western Anatolia), Turkey. *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1204-1207.**
- Palmer, M.R., Helvacı, C. & Fallick, A.E., 2004. **Sulphur, sulphate oxygen and strontium isotope composition of Cenozoic Turkish evaporites. *Chem. Geol.*, vol. 209, no. 3-4, pp. 341-356.**
- Parolai, S., Bindi, D., Baumbach, M., Grosser, H., Milkereit, C., Karakisa, S. & Zünbul, S., 2004. **Comparison of different site response estimation techniques using aftershocks of the 1999 Izmit earthquake. *Seismol. Soc. Am., Bull.*, vol. 94, no. 3, pp. 1096-1108.**
- Parsons, T., 2004. **Recalculated probability of M > 7 earthquakes beneath the Sea of Marmara, Turkey. *J. Geophys. Res., Ser. B*, vol. 109, B05304, pp. 1-21.**

- Polonia, A., Gasperini, L., Amorosi, A., Bonatti, E., Bortoluzzi, G., Catagay, N., Capotondi, L., Cormier, M.H., Gorur, N., Mchugh, C. & Seeber, L., 2004. **Holocene slip rate of the North Anatolian Fault beneath the Sea of Marmara.** *Earth Planet. Sci. Lett.*, vol. 227, no. 3-4, pp. 411-426.
- Sadiklar, M.B., Hanedan, A. & Heide, K., 2004. **A preliminary study of the heterogeneous alteration in the rhyolitic natural glass from Buyuk Yayla (Ikizdere / Rize, NE Turkey).** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1232-1233.
- Sadiklar, M.B., Hanedan, A. & Heide, K., 2004. **Origin of the thrust zone fluorites of Celikhan (Adiyaman, eastern Turkey): A geochemical approach.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1234-1237.
- SASMAZ, A. & YAVUZ, F., 2004. **The mineralogical and geochemical properties of Yaylagozu (Yildizeli – Sivas) fluorite deposits.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1238-1241.
- Sonmez, H., Gokceoglu, C. & Ulusay, R., 2004. **Indirect determination of the modulus of deformation of rock masses based on the GIS system.** *Int. J. Rock Mech. Min. Sci.*, vol. 41, no. 5, pp. 849-857.
- Sonmez, H., Tuncay, E. & Gokceoglu, C., 2004. **Models to predict the uniaxial compressive strength and the modulus of elasticity for Ankara agglomerate.** *Int. J. Rock Mech. Min. Sci.*, vol. 41, no. 5, pp. 717-729.
- Tatar, O., Piper, J.D.A., Gursoy, H., Heimann, A. & Kocbulut, F., 2004. **Neotectonic deformation in the transition zone between the Dead Sea Transform and the East Anatolian Fault zone, southern Turkey: A paleomagnetic study of the Karasu rift volcanism.** *Tectonophysics*, vol. 385, no. 1-4, pp. 17-43.
- Tokcaer, M., Agostini, S. & Savascin, M.Y., 2004. **Geotectonic setting, origin and emplacement model of the youngest Kula volcanics in western Anatolia.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1314-1317.
- Topal, T. & Acir, O., 2004. **Quality assessment of armourstone for a rubble mound breakwater (Sinop, Turkey).** *Environ. Geol.*, vol. 46, no. 6-7, pp. 905-913.
- Topcuoglu, S., Kirbasoglu, C. & Yilmaz, Y.Z., 2004. **Heavy metal levels in biota and sediments in the northern coast of the Marmara Sea.** *Environ. Monitoring & Assess.*, vol. 96, no. 1-3, pp. 183-189.
- Tsapanos, T.M., Koravos, G.C., Tatsiopoulou, G.A. & Sertaridou, I.C., 2004. **Seismic hazard and seismic risk analysis in Turkey deduced from mixed files.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc.*, vol. 3, pp. 1617-1619.
- Ulusoy, I., Cubukcu, E., Aydar, E., Labazuy, P., Gourgaud, A. & Vincent, P.M., 2004. **Volcanic and deformation history of the Bodrum resurgent caldera system (soujthwestern Turkey).** *J. Volcanol. Geothermal Res.*, vol. 136, no. 1-2, pp. 71-96.
- Ural, S. & Yuksel, F., 2004. **Geotechnical characterization of lignite bearing horizons in the Afsin – Elbistan lignite basin, SE Turkey.** *Eng. Geol.*, vol. 75, no. 2, pp. 129-146.
- URUGLU, A., 2004. **Leaching characteristics of fly ash.** *Environ. Geol.*, vol. 46, no. 6-7, pp. 890-895.
- Uysal, I., Ceran, S., Coban, H., Karsli, O., Sadiklar, M.B. & Tarkian, M., 2004. **Platinum group minerals as indicators of sulfur fugacity in upper mantle: An example from chromitites of the southwestern Turkey (Mugla – Isparta).** *5th Int.*

- Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1252-1255.*
- Uz, B., Ketenci, F., Ozdamar, S. & Esenli, F., 2004. **The relationship between the petrography, chemistry, and pozzolanic activity of natural pozzolans from Biga Peninsula, Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1465-1468.*
- Van Hinsbergen, D.J.J., 2004. **The evolving anatomy of a collapsing orogen.** *Geol. Ultraiectina, no. 243, 280 p.*
- van hinsbergen, d.j.j., snel, e., garstman, s.a., marunteanu, m., langereis, c.g., wortel, m.j.r. & meulenkamp, j.e., 2004. **Vertical motions in the Aegean volcanic arc: Evidence for rapid subsidence preceding volcanic activity on Milos and Aegina.** *Mar. Geol., vol. 209, no. 1-4, pp. 329-345.*
- Yakupoglu, T. & Bayhan, E., 2004. **The origin of clay minerals in Neogene sedimentary rocks around Mugla – Yatagan (SW Turkey).** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1256-1257.*
- Yalcin, H., Bozkaya, O. & Basibuyuk, Z., 2004. **Mg-mineral occurrences in the central Anatolian Neogene intra-cratonic basins related to neotectonic regime: An example from Kangal basin, Sivas, Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1473-1476.*
- Yasar, E. & Erdogan, Y., 2004. **Correlation sound velocity with the density, compressive strength and young's modulus of carbonate rocks.** *Int. J. Rock Mech. Min. Sci., vol. 41, no. 5, pp. 871-875.*
- Yavuz, O., 2004. **Petrographic and geochemical characteristics of volcanic rocks along the north of Sariyer, Istanbul, Turkey.** *5th Int. Symp. on Eastern Mediterranean Geology, Thessaloniki, Greece, Apr. 2004, Proc., vol. 3, pp. 1258-1260.*
- Yigitbas, E., Elmas, A., Sefunc, A. & Ozer, N., 2004. **Major neotectonic features of eastern Marmara region, Turkey: Development of the Adapazari-Karasu corridor and its tectonic significance.** *Geol. J., vol. 39, no. 2, pp. 179-198.*
- Yildiz, A. & Kuscu, M., 2004. **Origin of the Basoren (Kutahya, W Turkey) bentonite deposits.** *Clay Miner., vol. 39, no. 2, pp. 219-231.*