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Education

BSc: Dept. of Geological Engineering (Petroleum Geology), METU, Ankara, 1982

MSc: Dept. of Geological Engineering (Tectonics), METU, Ankara, 1985

(The tectonostratigraphic characteristics of the Kelkit valley Subzone of the North Anatolian Fault Zone)

PhD: Dept. of Geological Engineering (Tectonics), METU, Ankara, 1993

(Tectonostratigraphy and Neotectonic Characteristics of the southern margin of Merzifon-Suluova Basin, Central Pontides, Amasya)

Key Fields of study

Tectonics (post-Permian tectonostratigraphic evolution of Northern Neotetehyan Belt; Evolution of Cretaceous accretionary wedge and ophiolitic Mélange belt)

Natural Disasters (post-Miocene Neotectonics of Eastern Mediterranean realm)

Natural Resources (Structural evolution of Metallic ore deposits and Industrial Minerals in exploration, Anatolia)

Academic duties

Project Assistant, Engineering Faculty, Dept. of Geological Engineering, METU, 1982 - 1983

Research Assistant, Engineering Faculty, Dept. of Geological Engineering, METU, 1983 - 1993

Visiting Scientist, University of Cincinnati, Geology Dept., OH, U.S.A., 1989 - 1990

Instructor Dr., Engineering Faculty, Dept. of Geological Engineering, METU, 1993 - 1997

Assist. Prof. Dr., Engineering Faculty, Dept. of Geological Engineering, METU, 1997 - 2001

Assoc. Prof. Dr., Graduate School of Natural and Applied Sciences, Geodesy and Geographical Information Technologies, METU, 1997 - 2010.

Assoc. Prof. Dr., Engineering Faculty, Dept. of Geological Engineering, METU, 2001 – 2013.

Assoc. Prof. Dr., Graduate School of Natural and Applied Sciences, Earthquake Studies, (2007-2015)

Assoc. Prof. Dr., Graduate School of Natural and Applied Sciences, Disaster Management Implementation and Research Center, METU, 2011 - 2014.

Prof. Dr., Engineering Faculty, Dept. of Petroleum and Natural Gas Engineering, METU, Northern Cyprus Campus, 2019 - 2020.

Prof. Dr., Engineering Faculty, Dept. of Geological Engineering, METU, 2013 – 2025.

METU Administrative duties

METU Journal of Natural and Applied Sciences, METU, Assistant to Editor (1988 – 1992)

METU Dept. of Geological Engineering, Seminar Organization Commission Member (1992 - 2003)

METU Member of University Discipline Committee, (1999 - 2009)

METU Dept. of Geological Engineering, Member of the ABET Commission (1999-2001)

METU Dept. of Geological Engineering, Coordinator of the Summer Practice program (2001 - 2005)

METU Dept. of Geological Engineering, Member of the Graduate committee (2002 - ...)

METU Engineering Faculty, Member of the Academic board of Faculty of Engineering (Elected member) (2002 - 2005)

METU Engineering Faculty, Member of the board of Education programs, Faculty of Engineering (2004 - 2010)

METU Dept. of Geol. Engineering, Coordinator of EU programs in LdV projects (2004-2007)

METU Teknopark, Teknoplazma High Tech Composites Company, Member of Auditory Board as Inspection committee member (2005)
METU Dept. of Geological Engineering, ABET Commision Member (2007 – 2019)
METU Graduate School of Natural and Applied Sci. Member of Executive board of the Earthquake studies (2007 – 2019)
METU Disaster Management Implementation and Research Center (DMC) Executive Board Member (2011 - 2014)
METU Engineering Faculty, Member of the Academic board of Faculty of Engineering (Elected member) (2015-2018)
METU Member of Inspection and Discipline Committee of Faculty of Engineering (2017-2018, 2020).
METU Board Member and chair of Center for Black Sea and Central Asia (Karadeniz ve Orta Asya Ülkeleri Araştırma Merkezi) (KORA) (2021- 2025)

Educational Activities

Courses given as Faculty Member;

GEOE 201 General Geology (Dept. of Petroleum & Natural Gas Engineering)
GEOE 201 General Geology (Dept. of Natural Gas & Petroleum Engineering, METU Cyprus Campus)
GEOE 208 Mapwork
GEOE 209 Physical Geology
GEOE 215 Principles of Structural Geology (Mining Engineering Dept.)
GEOE 231 Elements of Geology (Environmental Engineering Dept.)
GEOE 313 Structural Geology
GEOE 326 Field Geology
GEOE 327 Field Geological Mapping
GEOE 404 Geology of Turkey
GEOE 408 Geomorphology
GEOE 409 Photogeology
GEOE 443 Aerial Thematic Mapping
GEOE 501 Global Tectonics
GEOE 506 Advanced Photogeology

Courses taught (currently):

Physical Geology (GEOE209)
Mapwork (GEOE208)
Field Geology (GEOE326)
Field Geological Mapping (GEOE327)
Geology of Turkey (GEOE404)
Geomorphology (GEOE 408)

Professional Memberships

The Chamber of Geological Engineers of Turkey (TMMOB-JMO) (1982- ...)
Association of Turkish Petroleum Geologists (1985 - ...)

Scientific Awards and Scholarships

Higher Education Scholarship, from Erdemir Iron and Steel Factories, (1980-1982).
International Rotary Foundation Goodwill Ambassador Scholarship in “Use of remote sensing tools in Earthquake prediction: Thermal Infra-red and Radar Imagery”. (1989-1990).
TÜBİTAK Scientific Publication Incentive Award; 2001, 2004, 2005, 2006, 2008, 2009, 2010, 2012, 2013, 2014, 2017, 2019, 2020, 2021, 2022, 2023, 2025.
METU Rectorate Scientific Publication Incentive Award; 2001, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2014, 2017, 2019, 2020, 2021, 2022, 2023, 2025.
METU Rectorate Academic Best Performance Evaluation Award; 2004, 2006, 2009.
METU Parlar Foundation Outstanding Academic Achievement Award, 2007.
Elsevier (Scopus), Journal of Geodynamics, highly cited research; 2014, 2015, 2016.

Published Articles

- 1) Koçyiğit, A., Özkan, S. and **Rojay, B.**, 1988. “Examples from the forearc basin remnants at the active margin of northern Neo-Tethys: Development and emplacement ages of the Anatolian Nappe, Turkey”. METU Jour. of Pure and Applied Sci., 21/1-3, 183-210.
- 2) Doyuran, V., Toprak, V., Topal, T., Koçyiğit, A., **Rojay, B.** and Bozkurt, E., 1992. “Engineering geological evaluation of the Of-Solaklı hydropower plant development project (NE Turkey)”. Bull. Int. Assoc. of Engineering Geology, 47, 97-107.

- 3) Toprak, V. and **Rojay, B.**, 1994. "Joint type and joint density analysis in the flysch sequence around Kırkkale". TPJD bülteni, 5/1, 1-33.
- 4) **Rojay, B.**, 1995. "Post-Triassic evolution of Central Pontides: Evidences from Amasya region, Northern Anatolia". *Geologica Romana*, 31, 329-350.
- 5) Doyuran, V., Toprak, V., Topal, T., Koçyiğit, A., **Rojay, B.** and Bozkurt, E., 1995. "Of-Solaklı adeduct-tunnel system; A case study from the Eastern Black Sea area, NE Turkey". In: A. Erler, T. Ercan, E. Bingöl and S. Örçen (eds). *Geology of the Black Sea Region, Proceedings of the International Symposium on the Geology of the Black sea region*, 319-327.
- 6) **Rojay, B.** and Göncüoğlu, M.C., 1997. "Tectonic setting of some Paleozoic metamorphics in Northern Anatolia, Turkey" (I). *H.Ü. Yerbilimleri Dergisi*, 19, 108-118.
- 7) **Rojay, B.** and Süzen, L. 1997. "Tectonostratigraphic evolution of an arc-trench basin on accretionary ophiolitic melange prism, Central Anatolia, Turkey". TPJD bülteni, 9/1, 1-12.
- 8) **Rojay, B.** and Göncüoğlu, M.C., 1988. "Tectonic setting of some Paleozoic metamorphics in Northern Anatolia, Turkey" (II). In D. Papanikolaou and F.P. Sassi (eds.). *Paleozoic geodynamic domains and their alpidic evolution in the Tethys*. IGCP Project No 276, Newsletter, No 6, Special Publications of the geological society of Greece No 3, 97-102, Athens.
- 9) **Rojay, B.** and Altiner, D., 1998. "Middle Jurassic - Lower Cretaceous biostratigraphy in Central Pontides (Turkey): Remarks on the paleogeography and tectonic evolution". *Rev. It. Di Paleon. Strati.*, 104, 2/1, 167-180.
- 10) **Rojay, B.**, Heimann, A. and Toprak, V., 2001. "Neotectonic and volcanic characteristics of the Karasu fault segment (Anatolia, Turkey): The transition zone between the Dead Sea Transform and the East Anatolian Fault Zone". *Geodynamica Acta*, 14, 197-212.
- 11) Koçyiğit, A., **Rojay, B.**, Cihan, M. and Özacar, A. 2001. "The June 6, 2000, Orta (Çankırı, Turkey) Earthquake: Sourced from a New antithetic sinistral strike-slip structure of the North Anatolian Fault System, the Dodurga Fault Zone". *T. Jour. of Earth Sci.* 10/2, 69-82.
- 12) **Rojay, B.**, Yalınız, K. and Altiner, D., 2001. "Age and origin of some pillow basalts from Ankara melange and their tectonic implications to the evolution of northern branch of Neotethys, Central Anatolia". *T. Jour. of Earth Sci.*, 10/3, 66-81.
- 13) Doyuran V., Karahanoğlu N., Bozkurt E., Topal T., **Rojay B.**, Arcasoy A. and Süzen L., 2002. Engineering geological Investigation of the Demirtaş Settlement Area (Bursa-Turkey), In: van Rooy J.L. and Jermy C.A. (eds), *Engineering Geology for Developing Countries - Proceedings of 9th Congress of IAEG*. Durban, South Africa, 432-438.
- 14) Derman, S., **Rojay, B.**, Güney, H. ve Yıldız, M., 2003. Şereflikoçhisar-Aksaray Fay Zonunun Evrimi hakkında yeni sedimentolojik veriler. TPJD Haymana-Tuzgölü-Ulukışla basenleri uygulamalı çalışma Kitabı 2000, 47-70.
- 15) **Rojay, B.**, Altiner, D., Özkan Altiner, S., Önen, P., James, S. and Thirwall, M., 2004. Geodynamic significance of the Cretaceous pillow basalts from North Anatolian Ophiolitic Mélange Belt (Central Anatolia, Turkey): geochemical and paleontological constrains. *Geodynamica Acta*, 17/5, 349-361.
- 16) **Rojay, B.**, Toprak, V., Demirci, C. and Süzen, L., 2005. Plio-Quaternary evolution of the Küçük Menderes Graben (Western Anatolia, Turkey). *Geodynamica Acta*, 18/3, 241-255.
- 17) Bozkurt, E. and **Rojay, B.**, 2005. Episodic, two-stage Neogene extension and short-term intervening compression in western Anatolia: field evidence from the Kiraz basin and Bozdağ Horst. *Geodynamica Acta*, 18/4, 295-312.
- 18) Süzen, M. L. and **Rojay, B.**, 2005. Active Shoreline Changes of Büyük Menderes River Delta in Last 50 Years. In: E. Özhan (ed.), *Proceedings of the 7th Int. Conference on the Mediterranean Coastal Environment, Medcoast 05*, 1309-1316.
- 19) Süzen, M. L., Toprak, V. and **Rojay, B.**, 2006. High-altitude Plio-Quaternary fluvial deposits and their implication on the tilt of Bozdağ Horst, western Anatolia, Turkey. *Jour. of Geomorphology*, 74, 80-99.
- 20) **Rojay, B.** and Karaca A., 2008. Post-Miocene Deformation in the South of the Galatean Volcanic Province, NW of Central Anatolia (Turkey). *T. Jour. of Earth Sci.*, 17, 653-672.
- 21) Bozkurt, E., Winchester, J.A., Ruffet, G. and **Rojay, B.**, 2008. Age and chemistry of Miocene volcanic rocks from the Kiraz Basin of the Küçük Menderes Graben: its significance for the extensional tectonics of Southwestern Anatolia, Turkey. *Geodynamica Acta*, 21/5-6, 239-257.
- 22) Eyüboğlu, Y., Dilek, Y., Bozkurt, E., Bektaş, O., **Rojay, B.** and Şen, C., 2010. Structure and geochemistry of an Alaskan-type ultramafic-mafic complex in the Eastern Pontides, NE Turkey. *Gondwana Research*, 18, 1, 230-252.
- 23) **Rojay, B.** and Koçyiğit, A., 2012. Neotectonic evolution of the Merzifon-Suluova basin. *T. Jour. of Earth Sci.*, 21, 473-496.
- 24) Schildgen, T.F., Cosentino, D., Caruso, A., Buchwaldt, R., Yıldırım, C., Bowring, S. A., **Rojay, B.**, Echtler, H., and Strecker, M. R., 2012. Surface expression of eastern Mediterranean slab dynamics: Neogene topographic and structural evolution of the southwest margin of the Central Anatolian Plateau, Turkey. *Tectonics*, 31, 1-21.
- 25) **Rojay, B.**, 2013. Tectonic evolution of the Cretaceous Ankara Ophiolitic Mélange during the Late Cretaceous to pre-Miocene interval in Central Anatolia, Turkey. *Jour. of Geodynamics*, 65, 66-81.
- 26) Mazzini, I., Hudackova, N., Joniak, P., Kovacova, M., Mikes, T., Mulch, A., **Rojay, B.**, Lucifora, S., Esu, D. and Soulie-Marsche, I., 2013. Palaeoenvironmental and chronological constraints on the Tuğlu Formation (Çankırı Basin, Central Anatolia, Turkey). *T. Jour. of Earth Sci.*, 22, 619-714.
- 27) Lucifora, S., Cifelli, F., **Rojay, B.**, Mattei, M., 2013. Paleomagnetic rotations in the Late Miocene sediments from the Çankırı Basin (Central Anatolia, Turkey): the role of strike-slip tectonics. *T. Jour. of Earth Sci.*, 22, 778-792.
- 28) Lüdecke, T., Mikes, T., **Rojay, B.**, Cosca, M. A., Mulch, A. 2013. Stable isotope-based reconstruction of Oligo-Miocene paleoenvironment and paleohydrology of Central Anatolian lake basins (Turkey). *T. Jour. of Earth Sci.*, 22, 793-819.

- 29) Özsayın, E., Çiner, A., **Rojay, B.**, Dirik, K., Melnick, D., Fernández-Blanco, D., Bertotti, G., Schildgen, T. F., Garcin, Y., Strecker, M. R. and Sudo, M. 2013. Plio-Quaternary Extensional Tectonics of the Central Anatolian Plateau: A case study from the Tuz Gölü Basin, Turkey. *T. Jour. of Earth Sci.*, 22, 619-714.
- 30) Schemmel, F., Mikes, T., **Rojay, B.** and Mulch, A., 2013. The impact of topography on isotopes in precipitation across the Central Anatolian Plateau (Turkey). *Am. Jour. of Sci.*, 313, 61-80.
- 31) Yuce, G., Italiano, F., D'Alessandro, W., Yalcin, T.H., Yasin, D.U., Gulbay, A.H., Ozyurt, N.N., **Rojay, B.**, Karabacak, V., Bellomo, S., Brusca, L., Yang, T., Fu, C.C., Lai, C.W., Ozacar, A., and Walia, V., 2014. Origin and interactions of fluids circulating over the Amik Basin (Hatay, Turkey) and relationships with the hydrologic, geologic and tectonic settings. *Chemical Geology*, 388, 23–39.
- 32) Italiano F., Yuce, G., Di Bella, M., **Rojay, B.**, Sabatino, G., Tripodo, A., Martelli, M., Rizzo, A.L., and Misseri, M., 2017. Noble gases and rock geochemistry of alkaline intraplate volcanics from the Amik and Ceyhan-Osmaniye areas, SE Turkey. *Chemical Geology*, 469, 34-46.
- 33) Čermák, S., Joniak, P., and **Rojay, B.** 2019. A new early Pliocene locality Tepe Alagöz (Turkey) reveals a distinctive tooth phenotype of *Trischizolagus* (Lagomorpha, Leporidae) in Asia Minor. *Palaeontologia Electronica*, 22, 1, 14A 1-21.
- 34) Joniak, P., Peláez-Campomanes, P., Ostende, W. van den Hoek, and **Rojay, B.**, 2019. Early Miocene rodents of Gökler (Kazan Basin, Central Anatolia, Turkey). *Historical Biology*, 31/8, 982-1007.
- 35) Ostende, Lars W. van den Hoek, Joniak, P., **Rojay, B.**, Aten, C., Bilgin, M., and Pelaez-Campomanes, P., 2019. Early Miocene insectivores of Gökler (Kazan Basin, Central Anatolia, Turkey). *Palaeobiodiversity and Palaeoenvironments*, 99/4, 701–722.
- 36) Krystopowicz, N.J., Schoenbohm, L.M., Rimando, J., Brocard, G., and **Rojay, B.**, 2020, Tectonic geomorphology and Plio-Quaternary structural evolution of the Tuzgölü fault zone, Turkey: Implications for deformation in the interior of the Central Anatolian Plateau. *Geosphere*, 16 (5): 1107-1124. <https://doi.org/10.1130/GES02175.1>
- 37) Cosca, M. A., Reid, M., R. Delph . J. R., Gençaliöğlü Kuşcu, G., Blichert-Toft, J. , Premo W., Whitney, D.L., Teyssier, C., and **Rojay, B.**, 2020. Age and mantle sources of Quaternary basalts associated with “leaky” transform faults of the migrating Anatolia-Arabia-Africa triple junction. *Geosphere*, 17 (1): 69–94. <https://doi.org/10.1130/GES02266.1>
- 38) Whitney, D.L., Delph, J.R., Thomson, S.N., Beck, S., Brocard, G., Cosca, M. A., Darin, M., Kaymakçı, N., Meijers, M., Okay, A., **Rojay, B.**, Teyssier, C., Umhoefer, P. J., 2023. Breaking plates: creation of the Anatolian plate and tectonic escape system. *Geology*, 51, 673-677. <https://doi.org/10.1130/G51211.1>
- 39) Meijers M. J. M., Mikes T., **Rojay, B.**, Aydar E., Çubukçu H. E., Wagner T., Lüdecke, T., Krsnik, E., Fiebig, J., Mulch, A., 2025. Miocene decoupling of surface uplift of the Central Anatolian Plateau interior (Türkiye) and its modern mountainous margins, 663, 1-13. <https://doi.org/10.1016/j.epsl.2025.119414>
- 40) Meijers M. J. M., Mikes T., **Rojay, B.**, Çubukçu H. E., B., Aydar E., Lüdecke, T., Mulch, A., 2025. Climate change drove Late Miocene to Pliocene rise and fall of C4 vegetation at the crossroads of Africa and Eurasia (Anatolia, Türkiye), *Climate of the Past. Discussions.* <https://doi.org/10.5194/cp-2024-80>
-
- 41) Özacar, A.A., , **Rojay, B.**, ... , 2023. Tectonic Significance of EAFZ: Insights from 2023 earthquakes Sequence. *Bulletin of Earthquake Engineering Special Issue (in prep.)*.
- 42) Sarah WM George,, Rojay, B., 2023. Late Cenozoic lithospheric dripping under the Anatolian Plateau (in review)
- 43) **Rojay, B.**, Toprak, V., Bozkurt, E., Tekin, T., Dönmezoğulları, T., Demirci, C., 2025. Batı Anadolu karmaşık çok yönlü genişlemeli bölgesinde KKD-GGB – KD-GB yönelimli genişlemeli tektonizmanın Miyosen sonrası evrimi (Gediz-Alaşehir grabeni, Batı Anadolu, western Turkey). (in prep).

Citations (only by others, **22 papers out off 40** papers); ISI Web of Knowledge (Rojay B, and Rojay F B) (January 2026), 1040.

Symposium Abstracts and Proceeding Papers:

- 1) Koçyiğit, A. ve **Rojay, B.F.**, Horasan-Narman Depremi (Erzurum) depremi ile bölgenin jeotektonik yapısı arasındaki ilişki. TJK 38. Bilimsel ve Teknik Kurultayı Ketin Simpozyumu, 28-29, Ankara, 1984.
- 2) Koçyiğit, A. ve **Rojay, B.**, Doğu Anadolu bölgesinin yeni tektonik çatısı ve Horasan-Narman depremi, 1983. Kuzeydoğu Anadolu I.Ulusal Deprem Simpozyumu, Atatürk Üniversitesi Yayını, 248-265, 1984.
*Koçyiğit, A. and **Rojay, B.**, *Doğu Anadolu bölgesinin yeni tektonik çatısı ve Horasan-Narman depremi, 1983. Kuzeydoğu Anadolu I.Ulusal Deprem Simpozyumu, Atatürk Üniversitesi Yayını, 248-265, 1984.*
- 3) Koçyiğit, A. ve **Rojay, B.**, 30 Ekim 1983 Horasan-Narman depreminin Bölgenin Jeolojisi ile ilişkisi. II. Mühendislik haftası Tebliğleri, Akdeniz Üniversitesi Isparta Mühendislik Fak. Yayını No: 20, 36-53, 1985.
*Koçyiğit, A. and **Rojay, B.**, *30 Ekim 1983 Horasan-Narman depreminin Bölgenin Jeolojisi ile ilişkisi. Akdeniz Üniversitesi Isparta Mühendislik Fak. Yayını No: 20, 36-53, 1985.*
- 4) **Rojay, B.F.**, Kuzey Anadolu Fayı Kelkit alt kuşağı'nın (Çamoluk-Giresun) Paleo ve Neotektonik özellikleri. TJK 40. Bilimsel ve Teknik Kurultayı, 30, Ankara, 1986.

- 5) Koçyiğit, A., Özkan, S. and **Rojay, B.F.**, Examples from the forearc basin remnants at the active margin of northern Neotethys: Development and emplacement ages of the Anatolian Nappe, Turkey. Melih Tokay Geology Symposium, 18-19, Ankara, 1987.
- 6) Koçyiğit, A., Doyuran, V. ve **Rojay, B.F.**, Iskenderun Körfezi bölgesinde fay etkinliği incelemesi. H.Ü. Yerbilimlerinin 20.yılı simpozyumu, 13, Ankara, 1988.
- 7) Koçyiğit, A. ve **Rojay, B.F.**, Merzifon-Suluova havzasının konumu, kökeni, türü ve yaşı. H.Ü. Yerbilimlerinin 20.yılı simpozyumu, 42, Ankara, 1988.
- 8) **Rojay, B.F.**, Late Cretaceous tectono-stratigraphic evolution of a fore-arc basin in northern Anatolia, Amasya basin, Turkey. Tethyan Workshop, Edinburgh, 1991.
- 9) **Rojay, B.** and Altiner, D., Amasya bölgesindeki Orta Jura- Erken Kretase karbonat istiflerinin biostratigrafisi ve Orta Pontidlerin paleocoğrafyası üzerine gözlemler. Türkiye 9. Petrol Kongresi ve Sergisi, 142-143, Ankara, 1992.
- 10) Koçyiğit, A. and **Rojay, B.F.**, Erzincan Basin and 1992/3/13-15 Earthquakes: An active composite pull-apart basin on the North Anatolian Fault Zone, Turkey. International workshop on the geology of Türkiye, 39, Keele, 1992.
- 11) Doyuran, V., Toprak, V., Topal, T., **Rojay, B.** and Bozkurt, E., Engineering geological evaluation of the Of-Solaklı hydropower development project (NE Turkey). International symposium on the geology of the Black Sea Region, 110, Ankara, 1992.
*Doyuran, V., Toprak, V., Topal, T., Koçyiğit, A., Rojay, B. and Bozkurt, E., "Of-Solaklı adequeduct-tunnel system; A case study from the Eastern Black Sea area, NE Turkey". In: A. Erler, T. Ercan, E. Bingöl and S. Örçen (eds). *Geology of the Black sea Region, ISGB Proceedings of the International Symposium on the Geology of the Black sea region, 319-327, 1995.*
- 12) Doyuran, V., Çemen, I., Gülkan, P., Yüçemen, S., **Rojay, B.** and Başöz, N., Seismic zoning and earthquake potential of East and Southeast Anatolia. GSA 1993 Annual Meeting, A-198, Boston, 1993.
- 13) Toprak, V. and **Rojay, B.**, Üst Kretase-Paleojen flišinde eklem tipi ve eklem tipi yoğunluğu analizi Kırıkkale. H.Ü. Yerbilimlerinin 25. Yılı simpozyumu, 39-40, Ankara, 1994.
- 14) **Rojay, B.** and Altiner, D., Middle Jurassic - Lower Cretaceous biostratigraphy in the Amasya region: Remarks on the paleogeography and tectonic evolution of Central Pontides, Turkey. Union of Geoscience 8 (Terra Abstracts) Conference, 180, Strasbourg, 1995.
- 15) **Rojay, B.**, Leventoğlu, H. and Toprak, V., Evolution of Peçenek basin (Central Anatolia) and its implication on the nature of Tuzgölü fault zone. 2nd International Turkish Geology Workshop, 92, Sivas, 1995.
- 16) **Rojay, B.**, Yalınız, K. and Altiner, D., Age and origin of some pillow basalts from Ankara melange and their tectonic implications to the evolution of northern branch of Neotethys, Central Anatolia. IESCA-95, 46-47, Izmir, 1995.
- 17) Doyuran, V., Çemen, I., Gülkan, P., Yüçemen, S., **Rojay, B.** and Başöz, N., Seismicity of the Southeast Anatolian region. 2nd Int. Symposium on the geology of the Eastern Mediterranean region, 4, Jerusalem, 1995.
- 18) Doyuran, V., Çemen, I., and **Rojay, B.** Seismic zoning and earthquake potential of East and SE Anatolia. 7th IAEG Congress, Spain, 1995.
- 19) **Rojay, B.**, Karahanoğlu, N. and Toprak, V., The control of bed thickness and grain size on joint density in an overturned flyschoidal sequence. Structural controls and genesis of economic resources (Mineralogical and hydrocarbon deposits); International Meeting: The Dave Johnston Memorial meeting. Dublin, 1997.
- 20) Toprak, V. ve **Rojay, B.**, Peçenek havzasının jeolojik evrimi. 20. Yıl Jeoloji Simpozyumu, Selçuk Üniversitesi, 125, Konya, 1997.
- 21) Heimann, A., **Rojay, B.** and Toprak, V. The northern segment of the Dead Sea Transform in northern Syria and southern Turkey: Geochronology and tectonic implications of volcanism. 3rd International Turkish Geology Symposium, 99, Ankara, 1998.
- 22) **Rojay, B.**, Toprak, V. and Heimann, A. Neotectonic characteristics of the Karasu fault zone, northern continuation of Dead Sea Transform in Anatolia (Turkey), 3rd International Turkish Geology Symposium, 100, Ankara, 1998.
- 23) Heimann, A., **Rojay, B.** and Toprak, V. Volcanism in the Karasu (Hatay) Valley, the northern end of Dead Sea Rift, Southern Turkey: Geochronology and Tectonic Implications. Isreal Geol. Soc. Annu. Meeting, 45, Isreal, 1998.
- 24) Koçyiğit, A., Göncüoğlu, M.C., Bozkurt, E., Toprak, V., Dirik, K., **Rojay, B.**, Yılmaz, İ.Ö., Teksöz, B., Cihan, M., and Özacar, A. 17 Ağustos 1999 Marmara depremi araştırmaları. Sürekli iskan için yer seçiminde jeolojik araştırmalar. ODTÜ Deprem simpozyumu, 11-13, Ankara, 2000.
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- 6) Yazıcıgil, H., Akgün, H. and **Rojay, B.**, (1995). Geological evaluation of the Istanbul Municipality's waste disposal site in Kemerburgaz (Istanbul Büyükşehir Belediyesi).
- 7) Tectonic interpretation of Au deposit sites in Artvin area through aerial photographs (Cominco Turkey) (1991).
- 8) Yazıcıgil, H., Doyuran, V., Karahanoğlu, N., Çamur, Z., Toprak, V., **Rojay, B.**, Yılmaz, K., Şakıyan, J., Süzen, L., Yeşilnacar, E., Gündoğdu, A., Pusatlı, T., Tuzcu, B. (2000). Hydrogeological evaluation of groundwaters and planning the use of waters in K. Menderes basin. Water and Hydrologic department of Turkey (DSİ).
- 9) Yazıcıgil, H., Doyuran, V., Karahanoğlu, N., Çamur, Z., Toprak, V., **Rojay, B.**, Yılmaz, K.K., Şakıyan, J., Süzen, M.L., Yeşilnacar, E., (2000). Revize Hidrojeolojik Etüdlere Kapsamında Küçük Menderes Havzası Yeraltısularının İncelenmesi Ve Yönetimi Projesi, T.C. Enerji Ve Tabii Kaynaklar Bakanlığı, DSİ Jeoteknik Hizmetler ve Yeraltısu Dairesi Başkanlığı, O.D.T.Ü - AGÜDÖS 98-03-09-01-01. (Hydrogeological investigation and groundwater management of Küçük Menderes Basin).
- 10) Doyuran, V., Koçyiğit, A., Karahanoğlu, N., **Rojay, B.**, Arcasoy, A., Met, İ. (2000). Geologic/geotechnic inspection of Akçalar (Bursa) settlement. Akçalar Municipality project.
- 11) Doyuran, V., Koçyiğit, A., Yazıcıgil, H., Karahanoğlu, N., Bozkurt, E., Topal, T., **Rojay, B.**, Arcasoy, A., Süzen, L., Met, İ. Yılmaz, K. (2000). Geological/Geotechnical investigation of Demirtaş Municipality Settlement Area, METU Project No: 99-03-09-01-04. Demirtaş Municipality project
- 12) Topal, T., **Rojay, B.**, (2002). Kemer (Antalya) İlçesi Ulupınar Köyü Çıralı P.24.b.10c.IVd Paftası Kıyı Kenar Çizgisi Tesbitine Yönelik Jeolojik Etüd. Consultancy on Coastline analysis.
- 13) Topal, T., Gürkan, B. **Rojay, B.**, (2002). Kemer (Antalya) ilçesi Kuzdere Köyü 2674 numaralı parselin Küçük Sanayi Sitesi olarak kullanılabilirliğinin tesbitine yönelik jeolojik ve ekolojik etüd. Geological and ecological consultancy.
- 14) Yazıcıgil, H., **Rojay, B.**, Süzen, M.L. (2009). Reserve calculation of the Çamlıca Hendek Hayat Su water reservoir. (Golder Associates - Danone France).
- 14) Yazıcıgil, H., **Rojay, B.**, Süzen, M.L. (2011). Kıratlı projesi arama sondajlarının Madra barajına olası etkilerinin araştırılması. Koza Altın İşletmeleri.
- 15) Topal, T., Erberik, M.A., **Rojay, B.**, (2015). Alaplı-Ereğli (Zonguldak) bölgesi heyelan tespit çalışması (Landslide evaluation). Danıştay davası.
- 16) Topal, T., Erberik, M.A., **Rojay, B.**, (2015). İpsala bölgesi (Trakya) heyelan tespit çalışması (Landslide evaluation). Danıştay davası.
- 17) Topal, T., Erberik, M.A., **Rojay, B.**, (2015). Karabağlar (İzmir) bölgesi heyelan tespit çalışması (Landslide evaluation). Danıştay davası.
- 18) **Rojay, B.**, 2016. Kastamonu-Paşadağ (Ankara) arasında ki yapısal unsurların Terra Aster ve Landsat8 uydu görüntüleri kullanılarak araştırılması. MTA-METU project.

- 18) Topal, T., Erberik, M.A., **Rojay, B.**, (2017). K.Çekmece bölgesi (İstanbul) heyelan tespit çalışması (Landslide evaluation). Danıştay davası.
- 19) Topal, T., Erberik, M.A., **Rojay, B.**, (2018). Odunpazarı bölgesi (Eskişehir) Zemin etüd çalışması (Soil evaluation). Danıştay davası.
- 20) Yazıcıgil, H., , **Rojay, B.**, , (2018). Hydrogeological analysis and characterization of the Alpu Coal Basin (A, B, C, D, E and F sectors) (central Anatolia). ESAN Industrial Mining project.
- 21) Topal, T., Erberik, M.A., **Rojay, B.**, (2019). Tunceli tarla sınırı yer tespiti (Settlement site selection). Danıştay davası.
- 22) Topal, T., Yakut, A., **Rojay, B.**, (2023). Kuzey Erzurum bölgesi heyelan değerlendirilmesi. Danıştay davası.

Base-metal Mining and Industrial Mineral Projects/Consultancies:

- 1) **Rojay, B.**, 1991. Tectonic interpretation of Au deposit sites in Artvin area through aerial photographs (Cominco Turkey).
- 2) Consultancy in geological interpretation of aerial photographs in exploration of borate deposits in central Anatolia (RioTinto-Turkey) (1999 –2003).
- 3) Consultancy in exploration of Trona deposits in Kazan-Ayaş (Ankara) region (RioTinto-Turkey) (2000-2001).
- 4) Toprak, V. ve **Rojay, B.**, 2001. Manisa-Gediz alanının jeolojik etüdü - Bor mineralleri araştırmaları (RioTinto-Turkey).
- 5) **Rojay, B.**, 2003. Photogeological determination of Lead-Zinc oxide prospect areas, their tectonic interpretation and targeting new prospecting areas in Hakkari- Beytülşap-Çukurca section, SE Anatolia, Turkey. Teckcominco project.
- 6) Consultancy in borate exploration (Maden and Tetkik Arama Enstitüsü (MTA) (2005 - 2006).
- 7) **Rojay, B.**, 2006. Geological report of Demirkaynak (Mastra) gold mine area.
- 8) **Rojay, B.**, 2007. Geological report on tailing pond site of Demirkaynak (Mastra) Gold mine Area, Koza Maden. Golder Associates.
- 9) **Rojay, B.**, 2008. Geological report on tailing pond site of KB Bergama (NW Anatolia) Gold Mine Area, Koza Maden. Golder Associates.
- 10) Consultancy in exploration and evaluation of the potential Uranium deposits in Western Anatolia (ETİ Maden, 2009).
- 11) **Rojay, B.**, 2009. Reserve calculation of the Sivas-Kangal (E Anatolia) kömürleri, Etyemez thermic power plant site (SRK Consultancy - Soyak Holding).
- 12) **Rojay, B.**, 2011. Geological research in Etili (Ağıdağı-Kirazlı, W Anatolia) gold mine area. (Alamos-Golder Associates environmental impact report).
- 13) **Rojay, B.**, 2011. Research for industrial ore (Borate-Trona) deposits in Simav region (W Anatolia). (Asia Minor Mining project)
- 14) **Rojay, B.** and Suzen, M. L., 2011. Geological mapping and application of remote sensing in the selection of leach and waste disposal sites in Ağıdağı-Kirazlı gold mining area. Golder Associates.
- 15) **Rojay B.**, 2012. Preparing the geological cross-sections of the Ağıdağı and Kirazlı gold mine areas. Golder Associates.
- 16) **Rojay B.**, 2012. Geological researches on the ore mineralization of the Ordu-Altıntepe gold mine. Golder Associates.
- 17) **Rojay, B.**, 2012. Geological mapping of Ağıdağı-Kirazlı gold mining area for locating the leaching and waste disposal sites areas. Golder Associates.
- 18) **Rojay B.**, 2012. Structural geological analysis of the Mihalicık Fe-Ni ores (W Anatolia) (Meta-Nikel A.Ş.). Arcasoy Consultancy.
- 19) **Rojay, B.**, 2013. Kinematic evolution and deformation of the Gümele-Çeltikçi (Ankara) coal basin during Miocene. Asia Minor Mining.
- 20) **Rojay B.**, 2013. Modelling the tectonic evolution of the Gördes Nickel Mine area (W Anatolia) (Meta-Nikel A.Ş.). Arcasoy Consultancy.
- 21) **Rojay, B.**, 2013. Geological surveys in Kuzey Biga-Ağıdağı-Kirazlı (W Anatolia) Gold Mine region. Kuzey Biga Mining (Alamos) project.
- 22) **Rojay, B.**, 2013. Post-Miocene kinematic analysis and deformation of Gümele-Çeltikçi (Ankara) coal basin. Asia Minor Mining Company.
- 23) **Rojay, B.**, 2013. Geological researches in Kuzey Biga-Ağıdağı-Kirazlı gold mining. Consultancy. Kuzey Biga Madencilik.
- 24) **Rojay B.**, 2015. Seismotectonics of the Çeltikçi Coal Mine Area (Ankara). Asia Minor Mining.
- 25) Yazıcıgil, H., , **Rojay, B.**, 2018. Analysis and characterization of the Alpu Coal Basin (A, B, C, D, E and F sectors) (central Anatolia). ESAN Industrial Mining (2017-2018).
- 26) **Rojay, B.**, 2018. Integration of geological surface and subsurface data in Ardich area. Alacer Gold.
- 27) **Rojay, B.**, and Don, 2019. Preparation of various geological cross-sections based on the correlation of AR coded boreholes drilled in Ardich Area and combined with the surface geology (İliç, Eastern Turkey). Alacer Gold.
- 28) **Rojay, B.**, 2017. Geological Investigation of Ardich Area, Çöpler (İliç, Eastern Turkey). Alacer Gold.
- 29) **Rojay, B.**, 2021. Tectonic evolution of the Çakmaktepe sector of the Çöpler Mine. Alacer Gold.
- 30) Bozkurt, E., Kaymakçı, N. and **Rojay, B.**, 2025. Structural evolution of Çöpler Mine, İliç-Erzincan. Anagold Mining.

Board Member of Organizing, Scientific and Evaluating Committees of International/National Conferences

- 1) Melih Tokay Symposium, Member of Organizing and Scientific Committees, 1985.
- 2) "International workshop on the North Anatolian, East Anatolian and Dead Sea Fault Systems" Conference, Member of Organizing and Scientific Committee, 2003.
- 3) "International Symposium on the geodynamics of Eastern Mediterranean: Active tectonics of the Aegean" Conference, Member of Scientific Committee, 2005
- 4) SEFI Conference (European Society for Engineering Education 2005 Annual Conference) Member of Organizing Committee, 2005.
- 5) Geological Annual Conference of Turkey, Member of Scientific Committee, 2009, 2018, 2019, 2022.
- 6) Tectonic Crossroads: Evolving Orogens of Eurasia-Africa-Arabia. GSA Meeting Ankara, Member of Organizing and Scientific Committee, 2010.
- 7) IPETGAS Meeting, Member of Scientific Committee, 2011.
- 8) ESF Member of the Pool Reviewers, 2010-2011-2012
- 9) EGU Complimentary member, 2011, 2012, 2013, 2017, 2018, 2019
- 10) METU, Afet Yönetimi Uygulama ve Araştırma Merkezi (Disaster Management Implementation and Research Center). Disaster Risk Management Meeting to Turkey, Member of the Scientific Committee, (2012-2014).
- 11) METU, Center for Black Sea and Central Asia (KORA), Member and the Head of Center (2021-2025)

International Scientific Studies/Seminars/Schools

- 1) Plate Tectonics Summer School, 1983. TÜBİTAK-İTÜ, İstanbul.
- 2) Geomorphological studies with the use of remote sensing tools (University of Cincinnati, U.S.A.) (1989-1990).
- 3) Geology of Eastern Midcontinent Trip: Indiana economic geology and geology field trip. (Univ. of Cincinnati, USA) (1989).
- 4) A study on the Radar and Thermal Infra Red images. (USGS, Reston, Washington DC, USA) (1990).
- 5) Kansas-Oklohoma-New Mexico (Southwest USA) economic geology field trip. (Univ. of Cincinnati and New Mexico Tech.) (1990).
- 6) Appalachian field trip at the VA-TN-NC triple junction. (Univ. of Cincinnati, USA) (1990).
- 7) The role of Mantle Plumes in the opening of the south Atlantic ocean. (by M. Wilson, METU Geological Engineering, Ankara) (1992).
- 8) Tertiary-Quaternary volcanism in Western and Central Europe. (by M. Wilson, METU Geological Engineering, Ankara) (1992).
- 9) Remote sensing Summer School. TÜBİTAK MAM UBİTEK, Gebze İstanbul. (1993).
- 10) Geochemical discrimination: Application to geological problems. Methods of understanding metamorphic complexes. (by Winchester, J. A.) (METU and British Council) (1996).
- 11) Techniques in Structural Geology. (by Williams, G.) (METU) (1996).
- 12) Features and Elements of Structural Geology. (by Prof. Dr. G. H. Davis, METU Geological Engineering, Ankara) (1999).
- 13) Effective Teaching Workshop. (TÜBİTAK, Turkish Higher Education, METU Parlar Foundation) (by Feller, R. M. and Brent, R.) (2000)
- 14) Geochemical analysis of pillow basalts from 'Ankara' ophiolitic mélangé and their tectonic interpretations. (Royalhalloway College, Univ. of London, England) (2001).
- 15) Volcanic Processes, Products and Successions: Modern and Ancient Systems. (by Prof. Dr. R. A. Cas) (METU Geological Engineering). (2001).
- 16) Magmatic Petrogenesis Summer School, 2001. TÜBİTAK-MTA-JMO, Akçakoca, Turkey.
- 17) EAIE (European Association for International Education) 2003. Educational programmes of European Universities. (Vienna, Austria).
- 18) EAIE (European Association for International Education) 2005. Educational programmes of European Universities. Leonardo da Vinci programmes (Krakow, Poland).
- 19) SEFI Conference, 2005. (European Society for Engineering Education 2005 Annual Conference, Ankara, Turkey).
- 20) CSAG Meeting, 2008. TOPOEUROPE Meeting, European Science Foundation (Berlin, Germany).
- 21) TOPO Europe meeting, 2011. European Science Foundation. (Davos, Switzerland).
- 22) TOPO Europe meeting (ESF); Field trip to Swiss Alps and uplift history, 2011. (Switzerland).
- 23) Darius Final Programme meeting: University of P. and M. Curie. 2014. (Paris, France).
- 24) CD-CAT meeting (NFS project): in Uchisar (Turkey) 2016.
- 25) CD-CAT meeting (NFS project): in Vienna (Austria) 2017.

Some of the educational public talks:

- 1) The geology of Atlantic type continental margins (METU, 1982)
- 2) The mesoscopic characteristics of Eastern Anatolian Fault Zone (METU, 1984)
- 3) Melanges vs Olistostromes (METU, 1986)
- 4) The relationship between the Red Sea Rifting and the EAF System (METU, 1987)
- 5) The neotectonic outline of Turkey and adjacent areas (METU, 1987)

- 6) Protolithologies of green schists in Amasya region (Central Pontides, Turkey) and their regional correlation (University of Cincinnati, 1989)
- 7) The tectonostratigraphy of Amasya region and new findings (University of Cincinnati, OH, 1990).
- 8) Seismicity of Turkey and the People. (Rotary meeting, Columbus, OH, 1990).
- 9) The Turkey and its meaning/importance in the region. (Rotary meeting, Cincinnati, OH, 1990).
- 10) Comparison of the Basin and Range with Central Anatolian Province (METU, 1992).
- 11) Age and origin of some pillow basalts from Ankara melange and their tectonic implications (METU, 1995)
- 12) Türkiye'nin depremselliği ve Eskişehir. (Ford Otosan company, Eskişehir, 1999)
- 13) Türkiye'nin depremselliği ve Eskişehir. (Demirdöküm company, Eskişehir, 1999)
- 14) Amasya'nın Depremselliği ve Jeolojik Yapısı. (Amasya Valiliği Bayındırlık Müdürlüğü, Amasya, 2000)
- 15) Earthquake activity in Turkey and Ankara. (METU International Exchange Students, 2000)
- 16) Seismicity of Ankara Region. (British Women Group, Ankara, 2000)
- 17) 2000 tarihli Orta Depremi Araştırması ve Basın açıklaması. (press meeting by Koçyiğit, A., Gülkan, P. and Rojay, B.). (Ankara, 2000)
- 18) Seismicity of Turkey and Ankara. (METU International Exchange Students, Ankara, 2001)
- 19) Tsunami ve Türkiye'nin depremselliği. (Ankara Rotaract meeting, Ankara, 2005)
- 20) Neotectonics of Central Anatolia (EFS, CSAG-TOPOEUROPE Meeting, Berlin, Germany, 2008)
- 21) Doğal afetler ve Deprem nedir? (Batman Valiliği, Batman, 2009)
- 22) Neotectonics of Black Sea to Cyprus (EFS-TOPO Europe meeting, Davos, Switzerland, 2011)
- 23) Jeoloji ve Afetler 2011 (AFAD, Ankara, 2011)
- 24) Mihalicık Fe-Ni maden yatakları (Meta-Nikel A.Ş., Ankara, 2012)
- 25) Gümele-Çeltikçi (Ankara) kömür havzası Miyosen sonrası kinematik evrimi ve deformasyonu (Asia Minor Mining Company, 2013)
- 26) Alpu (Eskişehir) Kömürlerinin Jeolojisi (TKİ Company, Ankara, 2018)
- 27) Volkanizma ve Türkiye (İFAK Doğa Manzara Grubu, Online, 2021)
- 28) İzmir'i etkileyen, deprem üretebilecek Aktif faylar (İBB, İzmir, 2021).

Supervised thesis;

- 1) Karaca, A. (2004). "Post-Miocene deformation of the area between Alibey (Kızılcahamam) and Karalar (Kazan) villages, NW Ankara (Turkey)". (METU MSc. thesis).
- 2) Seyrek, E. (2008). "Post-Miocene tectonic evolution of Alidağ anticline, Adıyaman (Turkey). (METU MSc. thesis).
- 3) Çeliker, D. (2009). "Post-Paleogene deformation in northernmost tip of Tuzgölü fault zone (Paşadağ, south of Ankara) Turkey. (METU MSc. thesis).
- 4) Kasımoğlu, P. (2010). Post-Paleogene deformation in Kalecik region, East of Ankara, Turkey. (METU MSc. thesis).
- 5) Yunatçı, A. (2010). GIS based seismic hazard mapping of Turkey. Co-supervisor: Assoc. Prof. Dr. K. Ö. Çetin (METU Civil Engineering Dept., PhD thesis).
- 6) Bengü, E. (2017). Post-Paleogene stress distribution in the Bartın-Ulus-Safranbolu basins, Western Pontides, Turkey. (METU MSc. thesis).
- 7) Bayındırlı, M. (2019). Geometry, kinematics and activity of fault zone among Ankara-Çankırı. (METU MSc. thesis).
- 8) Dönmezoğlu, T. (2019). Morpho-tectonic analysis and kinematic evolution of the central Gediz-Alaşehir graben, western Anatolia, Turkey. (METU MSc. thesis).
- 9) Berberoğlu, U. (2019). Post-Miocene tectonics of Çeltikçi graben, southern margin of Galatian volcanic province, central Anatolia. (METU MSc. thesis).
- 10) Tekin, T. (2024). Active tectonics of Manisa fault; dating of faulting, morphotectonic and kinematic (paleostress) analysis. (METU MSc. thesis).

Peer-reviewing Journals (post-2000)

Geological Bulletin of Turkey (board member), International Journal of Earth Sciences, H.Ü. Yerbilimleri, Turkish Journal of Earth Sciences (board member), Yerbilimleri, MTA Dergisi, Turkish Assoc. of Petroleum Geologists (TPJD) bulletin, Geosound-Yerbilimleri, Geodinamica Acta, Neues Jahrbuch für Geologie, International Geology Review, Tectonophysics, Geological Society of America, Journal of Geodynamics, Journal of Volcanology and Geothermal Research, Journal of Asian Earth Sci., Mediterranean Geosci. Reviews (board member), Arabian J. of Earth Sciences

Peer-reviewing Projects (post-2000)

METU Engineering Faculty projects; 2005, 2006 (2), 2007 (2), 2008 (8), 2009 (8), 2010 (5), 2011 (6), 2012 (2), 2013, 2014, 2015 (2), 2016 (2), 2017 (2), 2018 (2), 2019.

TÜBİTAK ÇAYDAG projects; 2007, 2009 (3), 2010 (3), 2011 (2), 2015, 2016, 2021.