

## CURRICULUM VITAE



Full Name: Eren KÖMÜRLÜ

Birth date: 01/04/1986

Birth city/country: Kırıkkale/Turkey

Contact: [erenkomurlu@gmail.com](mailto:erenkomurlu@gmail.com), [ekomurlu@giresun.edu.tr](mailto:ekomurlu@giresun.edu.tr)

Giresun University Civil Engineering Department Giresun/Turkey, 28200

Position: Assoc. Prof. Dr. (Since November, 2020)

+90 554 412 72 98

### 1. Education

Degree	School and Graduation year
High School	Cumhuriyet Anatolian High School (Ankara) - 2004
BSc.	Hacettepe University (Mining Engineering) - 2010
MSc.	Karadeniz Technical University (Mining Engineering) - 2012
PhD.	Karadeniz Technical University (Mining Engineering) - 2016 (The University of Queensland Sch. of Civil Engineering – from July 2014 to July 2015)

### 2. Area of interest

► Rock Mechanics ► Tunnelling and Support Design ► Stability Problems for Underground Mining ► Soil Mechanics ► Soil Reinforcement ► Geosynthetics

### 3. Working Experiences

Position	Affiliation	Date
Assoc. Prof. Dr.	Giresun University Civil Engineering Department	November 2020-
Assist. Prof. Dr.	Giresun University Civil Engineering Department	January 2018- November 2020
Post-doctoral Researcher	Karadeniz Technical University Mining Engineering Department	July 2016 – February 2018
Visiting Researcher	The University of Queensland, School of Civil Engineering	July 2014-July 2015
Research Assistant	Karadeniz Technical University Mining Engineering Department	November 2010-July 2016

#### **4. Publications**

##### *4.1. Journals*

Komurlu, E., Celik, A.G., 2026. An Experimental Study on Reinforcement of Cement added Sand Mixes using Polypropylene Fibers with Different Geometries. *Journal of Geological Engineering* (accepted, in press, in Turkish)

Komurlu, E., Balci, M., 2026. Use of microgrid fiber as a new additive to improve load bearing and energy absorption performances of concretes with fine aggregates. *Civil Engineering Journal* (under review)

Komurlu, E., 2025. Use of microgrid fiber type new additives to improve load bearing and energy absorption capacities of shotcrete mixes. *Journal of Materials and Engineering Structures*, Vol. 12, 433-443.

Komurlu, E., Celik, A.G., Dogan, H., 2025. An experimental study on the effect of different geofiber types on the liquefaction resistance of a silty sand soil. *Acta Technica Jaurinensis*. DOI: 10.14513/actatechjaur.00764

Komurlu, E., Sari, S., 2025. Field Trip Notes on Two Historical Mines in the Batlama Valley of Giresun City. *MT Bilimsel, Journal of Underground Resources*, Vol. 27, 59-70.

Komurlu, E., 2024. Shear Strength Parameters and Deformability Properties of Silicate-based Resin added Sand-type Soil Specimens. *International Journal of Sustainable Engineering and Technology*, Vol. 8 (2), 142-153.

Komurlu, E., 2024. Use of microgrid fiber as a new reinforcement additive to improve compressive strength and ductility properties of cement stabilized sands. *Civil Engineering Infrastructures Journal*, DOI: 10.22059/cej.2024.376780.2064

Komurlu, E., Celik, A.G., Karakaya, V., 2024. An experimental study on uniaxial compressive strength values of silicate based resin added sand samples with different types of fiber reinforcements. *Yerbilimleri, Bulletin of Hacettepe University Earth Sciences Application and Research Center*, Vol. 45(1), 79-92.

Komurlu, E., 2024. A laboratory study on use of screw-type friction bolts as new soft rock stabilizers. *GeoScience Engineering*, Vol. 70(2), 40-50.

Komurlu, E., 2023. Use of microgrid fiber as a new reinforcement additive to improve compressive and tensile strength values of cemented rock fill mixes. *International Journal of Mining, Reclamation and Environment*, Vol. 37 (10), 760-768.

Komurlu, E., 2023. Investigation of new energy absorbing mechanisms used to fix rock bolt plates. *Periodica Polytechnica Civil Engineering*, Vol. 67(2), 561-570.

Komurlu, E., 2023. A resin type additive use to improve load bearing capacities of grouted rock bolts exposed to thermal cycles. *Journal of Engineering Sciences and Designs*, Vol. 11(2), 743-754.

Komurlu, E., 2023. Effect of stress relaxations under different strain levels on variations in uniaxial compressive strength values of a silt type soil. *Geomechanics and Engineering*, Vol. 32, 495-502.

Komurlu, E., Celik A.G., 2022. An experimental study on stress relaxation behaviour of cement stabilized sands. *Journal of Geoengineering*, Vol. 17, 187-192.

Komurlu, E., 2022. Improving support performances of cone bolts by a new grout additive and energy absorber. *Advances in Materials Research*, Vol. 11, 237-250.

Komurlu, E., Celik, A.G., Gunes, I., 2022. Use of a new insertion apparatus for improving performances of the split set type friction rock bolts. *Mining, Metallurgy & Exploration*, Vol. 39, 413-420.

Komurlu, E., 2022. Case studies on Q-slope method use for slope stability analyses. *Studia Geotechnica et Mechanica*, Vol. 44, 190-197.

Komurlu, E., 2021. Use of Polymeric Energy Absorption Liners to Improve the Concrete Rock Fall Barriers. *GeoScience Engineering*, Vol. 67, 168-175.

Komurlu, E., 2021. An investigation of foam concrete usability as a cavity filler material in mining. *GeoScience Engineering*, Vol. 67, 77-84.

Komurlu, E., 2021. Improving performances of friction rock bolts by using new spring plates. *Scientific Mining Journal*, Vol. 60, 131-135.

Komurlu, E., Çelik, A.G., 2021. Improving impact energy absorption capacity loss resistivity of thermally cycled cement pastes using a thermoset polymer additive. *MT Bilimsel, Journal of Underground Resources*, Vol. 20, 119-127.

Komurlu, E., Demir, S., 2021. Investigation of a new drilling design for loading core specimens with triple holes to determine direct tensile strength values of rock materials. *Material Design and Processing Communications*, Vol. 3, e154, DOI: 10.1002/mdp2.154

Komurlu, E., 2021. An Experimental Study on Stress Relaxation of a Silt type Soil. *Yerbilimleri, Bulletin of Hacettepe University Earth Sciences Application and Research Center*, Vol. 42, 70-84 (in Turkish)

Komurlu, E., 2020. An Investigation of Using Thermoset Polymer type Liquid Additives to Improve Cement Grout Performances in Rock Bolting Applications. *International Journal of Geosynthetics and Ground Engineering*, Vol. 6, Article no: 52.

Komurlu, E., 2020. Investigation of Uniaxial Compressive Strength values of a Polyvinyl resin reinforced Silt: An Experimental Study on resin amount and curing temperature. *International Journal of Engineering, Design and Technology*, Vol. 2(2), 82-87 (in Turkish)

Komurlu, E., 2020. An Investigation of Soil Void Ratio Effect on Liquid Limit Values Determined by Different Test Methods. *Geoscience Engineering*, Vol. 66(3), 150-161

Komurlu, E. Durmus Demir, A., Celik, A.G., 2020. Investigation of load bearing capacities of grouted rock bolts with new auxetic head designs. *Periodica Polytechnica Civil Engineering*, Vol. 64(3), 782–791

Komurlu, E., 2020. High-density polyurethane rigid foam usability as liner support material in rock engineering. *Arabian Journal of Geosciences*, Vol.13, Article no: 422

Yasar, S., Komurlu, E., 2020. Water Saturation induced Changes in Indirect (Brazilian) Tensile Strength and the Failure Mode of Some Igneous Rock Materials. *Geoscience Engineering*, Vol. 66(1), 60-68

Komurlu, E., Demir, S., 2020. Determination of Direct Tensile Strength Values of Rock Materials by a New Test Method of Drilled Disc Tension. *Periodica Polytechnica Civil Engineering*, Vol. 64(1), 33-41

Komurlu, E., 2020. Specimen Geometry and Loading Rate Condition Effect on Indirect Tensile Strength Values of Rock Materials. *Journal of Engineering Sciences and Design*, Vol. 8(1), 139-145 (In Turkish)

Komurlu, E., Celik, A.G., 2020. Effect of Void Ratio on Liquid Limit Values of Various Silts. *MT Bilimsel, Journal of Underground Resources*, Vol. 17, 11-22 (In Turkish)

Komurlu, E., Demir, S., 2019. Length Effect on Load Bearing Capacities of Friction Rock Bolts. *Periodica Polytechnica Civil Engineering*, Vol. 63(3), 718-725

Komurlu, E., Demir, S., 2019. Use of Rock Mass Rating (RMR) values for Support Designs of Tunnels excavated in Soft Rocks without Squeezing Problem. *GeoScience Engineering*, Vol. 65(2), 1-17

Komurlu, E., 2019. An Experimental Study on Determination of Crack Propagation Energy of Rock Materials under Dynamic (Impact) and Static Loading Conditions. *Hittite Journal of Science and Engineering*, Vol. 6, 1-6

Komurlu, E., Demir, S., 2019. Effect of Poisson's Ratio and Modulus of Elasticity of Rock Masses on Plastic Zones around Tunnels. *MT Bilimsel, Journal of Underground Resources*, Vol. 16, 15-23 (In Turkish)

Komurlu, E., 2019. Establishment of the First Universities in Turkey until 1960's. *Journal of University Research*, Vol. 2, 35-42 (In Turkish)

Komurlu, E., 2019. Thermal Stress Effect on Strength Loss Properties of Rock Materials: An Experimental Study on Thermal Fatigue Resistivity. *Journal of Natural Hazards and Environment*, Vol. 5, 124-133

Komurlu, E., Demir, S., 2019. Drilled Core Specimen Testing Method for Determination of Tensile Strength Values of Rock Materials. *Periodica Polytechnica Civil Engineering*, Vol. 63, 18-24

Komurlu, E., 2018. Loading Rate Conditions and Specimen Size Effect on Strength and Deformability of Rock Materials under Uniaxial Compression. *International Journal of Geo-Engineering*, 9, Paper no: 17, 1-11

Komurlu, E., Durmus Demir, A., 2018. Determination of Cohesion values of Rock Materials using Double Shear Jaws. *Periodica Polytechnica Civil Engineering*, Vol. 62(4), 881-892

Komurlu, E., Kesimal, A., Aksoy, C.O., 2017. Usability of Polyamide-6 (Nylon-6) type polymer material in Rock Bolting. *Yerbilimleri, Bulletin of Hacettepe University Earth Sciences Application and Research Center*, Vol. 38, 241-258 (in Turkish)

Komurlu, E., 2018. Synopsis on History of Establishment of First Mining Schools in Academia, *Madencilik Türkiye*, Vol. 69, 122-124 (in Turkish)

Komurlu, E., Cihangir, F., Turan, A., Kesimal, A., Erçikdi, B., 2018. An Experimental Study on Shear Strength of Cemented Paste Backfill Materials. *Suleyman Demirel University Journal of Natural and Applied Sciences*, Vol. 22, 45-52

Komurlu, E., Kesimal, A., 2017. Usability of Thin Spray-on Liners (TSL) for Akarsen Underground Mine in Murgul (in Turkish). *MT Bilimsel, Journal of Underground Resources*, Vol. 12, pp. 3-25

Komurlu, E., Kesimal, A., 2017. Experimental Study on Usability of Friction Rock Bolts with Plastic Body. *International Journal of Geomechanics*, Vol. 17(9), Paper no: 04017058

Komurlu, E., Kesimal, A., Demir, A.D., 2017. Dogbone shaped specimen testing method to evaluate tensile strength of rock materials. *Geomechanics and Engineering*, Vol. 12(6), pp. 883-898.

Komurlu, E., Kesimal, A., Aksoy, C.O., 2017. Use of Polyamide-6 type Engineering Polymer as Grouted Rock Bolt Material. *International Journal of Geosynthetics and Ground Engineering*, Vol. 3, Paper no: 37, DOI 10.1007/s40891-017-0114-6

Komurlu, E., 2016. Foundation of Rock Mechanics in Academia (in Turkish), *Madencilik Türkiye*, Vol. 59, pp. 98-110 (in Turkish)

Komurlu, E., Kesimal, A., Demir, S., 2016. Determination of Indirect (Splitting) Tensile Strength of Cemented Paste Backfill Materials. *Geomechanics and Engineering*, Vol. 10, No. 6, pp. 775-791

Komurlu, E., Kesimal A., 2016. An Experimental Study on Reinforcing Rock Columns using Polymeric Heated Ties. *Rock Mechanics and Rock Engineering*, Vol. 49, pp. 1995-2003.

Komurlu, E., Ozkan, F.S. 2016. A 2000 years old Mega Construction: Titus Tunnel. *Tunnelling Technologies Magazine*, Vol. 5, pp. 28-31 (in Turkish)

Komurlu, E., Kesimal, A., 2016. Rock Bolting from Past to Present in 20 Inventions. *MT Bilimsel, Journal of Underground Resources*, Vol. 9, pp. 69-85

Komurlu, E., Cihangir, F., Kesimal, A., Demir, S., 2016. Effect of adhesive type on the measurement of elasticity modulus using electrical resistance strain gauges. *Arabian Journal for Science and Engineering*, Vol. 41, No.2, pp. 433-441

Komurlu, E., Kesimal, A., Demir, S., 2016. An Experimental and Numerical Study on Determination of Indirect (Splitting) Tensile Strength of Rocks under Various Load Apparatus. *Canadian Geotechnical Journal*, Vol. 53, pp. 360-372

Komurlu, E., Kesimal, A., 2015. The Usability of Friction Rock bolts with Plastic Body. *The Journal of the Chamber of Mining Engineers of Turkey*, Vol. 54, No. 3-4, pp. 41-59 (in Turkish)

Komurlu E, Kesimal A., 2015. An Experimental Study on Polyurethane Foam Reinforced Soil use as Rock-like Material. *Journal of Rock Mechanics and Geotechnical Engineering*, Vol. 7(5), pp. 566-572.

Komurlu, E., Kesimal, A., 2015. Sulfide-rich mine tailings usage for short-term support purposes: An experimental study on paste backfill barricades. *Geomechanics and Engineering*, Vol. 9, pp. 195-205.

Komurlu E, Kesimal A, Hasanpour, R., 2015. In situ horizontal stress effect on plastic zone around circular underground openings excavated in elastic zones. *Geomechanics and Engineering*, Vol. 8, pp. 783-799.

Komurlu, E., Kesimal, A., 2015. Improved Performance of Rock Bolts using Sprayed Polyurea Coating. *Rock Mechanics and Rock Engineering*, Vol. 48, pp. 2179-2182

Komurlu, E., Kesimal, A., 2015. Evaluation of Indirect Tensile Strength of Rocks using Different Types of Jaws. *Rock Mechanics and Rock Engineering*, Vol. 48, pp. 1723-1730

Komurlu, E., Kesimal, A., Colak, U., 2014. Effect of Polyurea type Thin Spray-on Liners on Rock Bolt Performances. *The Journal of the Chamber of Mining Engineers of Turkey*, Vol. 53, pp. 13-18 (in Turkish)

Komurlu, E., Kesimal, A., 2013. Tunnelling and Support Materials from Past to Present. *The Journal of the Chamber of Mining Engineers of Turkey*, Vol. 52, pp. 33-47.

Komurlu, E., Ozkan F.S., 2013. Diamonds from Past to Present (in Turkish: Tarihten Günümüze Elmaslar), *Madencilik Türkiye*, Vol. 34, pp. 76-83.

Komurlu, E., Toptas, S., 2012. Investigation on Durability of Steep Foundation Pits in Urban Places. *MT Bilimsel, Journal of Underground Resources*, Vol. 1, pp. 13-57 (in Turkish)

#### 4.2. Proceedings

Kesimal, A., Cihangir, F., Kaya, A., Komurlu, E., Ercikdi, B., 2025. Determination of Support Designs to be Applied in the Main Galleries of an Underground Rock Salt Mine in Germece Village of Çankırı City. 14th Regional Rock Mechanics Symposium of Turkey (Rockmec2025), Trabzon, pp. 195-207

Komurlu, E., 2025. Use of microgrid fiber as a new type of geosynthetic in sand type soil reinforcement works. 77th Geological Congress of Turkey, Ankara, abstracts book, p. 324

Komurlu, E., 2024. A comparative investigation on the effect of microgrid fiber type new geosynthetics on the CBR values of a silty sand type soil. National Symposium on Engineering Geology and Geotechnics 2024 (MühJeo 2024), Nevşehir, Turkey, pp. 103-110

Komurlu, E., 2024. An Evaluation of Mine Support Practices in the First 100 Years of the Republic of Turkey. 5th Conference on Historical Mining Sites of Turkey, Edirne, pp. 10-14

Komurlu, E., 2023. A case study on low rock material strength values effect on soft rock mass classifications using the RMR system. 3rd International Civil Engineering and Architecture Conference, Trabzon, pp. 521-531

Komurlu, E., 2023. An Experimental Study on the Usability of Polyamide Energy Absorbers with Different Designs for Improving Rock Bolt Performances. 75th Geological Congress of Turkey, Ankara, p. 350

Komurlu, E., 2022. An experimental study on estimation of cohesion values of clay-type soils according to the pressuremeter and SPT site test results. 2nd International Symposium of Characterization (ISC'22), Afyonkarahisar, Turkey, abstracts book, p. 58

Komurlu, E., 2022. Use of a new thermoset type grout additive for improving support performances of rock bolts against thermal cycles. 13th Regional Rock Mechanics Symposium of Turkey (Rockmec2022), Isparta, Turkey, pp. 259-265

Komurlu, E., 2022. An important contribution of Blaise Pascal in mining history. 4th Conference on Historical Mining Sites of Turkey (CHMT2022), Izmir, Turkey, abstract booklet, p. 44. (full manuscript: MT Bilimsel, *Journal of Underground Resources*, Vol. 23, pp. 47-56, 2023, in Turkish)

Komurlu, E., 2021. An Investigation of Dense Polymeric Rigid Foam Liner Usability in Rock Engineering. 5th Early Career Forum of ISRM within European Rock Mechanics Symposium 2021 (Eurock 2021), Torino, Italy, Proceeding no: ECF008.

Komurlu, E., 2020. Start of Coal Mining in the Ottoman Empire Era. 3rd Conference on Historical Mining Sites of Turkey (CHMT 2020), Trabzon, Turkey, pp. 19-24 (in Turkish)

Komurlu, E., 2020. A Brief History of Establishment of Mining Engineering Department of Karadeniz Technical University. 2nd Mining Engineering Symposium (MES2020), Trabzon, Turkey (Accepted, postponed event due to the the Covid-19 Pandemia)

Komurlu, E., 2019. Investigation of Failure of Soils in the Shear Box Test. National Symposium on Engineering Geology and Geotechnics 2019 (MühJeo 2019), Denizli, Turkey, pp. 97-104 (in Turkish)

Komurlu, E., Demir, S., 2019. Effect of Poisson's Ratio and Modulus of Elasticity of Rock Masses on Plastic Zone around Tunnels. Mining Engineering Symposium 2019 (MES2019), Trabzon, Turkey, p. 7 (in Turkish)

Komurlu, E., Demir, S., 2019. Use of Drilled Core Specimens in Direct Tensile Strength Tests of Rock Materials. 72nd Geological Congress of Turkey, Ankara, Turkey, pp. 447-448

Komurlu, E., 2018. Support Performances of Elastomer type Thin Spray-on Liners against the Rock Burst: A Case Study. 12th Regional Rock Mechanics Symposium of Turkey (Rockmec2018), Trabzon, pp. 255-261

Komurlu, E., 2018. Synopsis on History of Mining in Murgul. 2nd Conference on Historical Mining Sites of Turkey (CHMT 2018), Trabzon, Turkey, pp. 21-22 (in Turkish)

Komurlu, E., 2018. Loading Rate Condition and Specimen Size Effect On Uniaxial Compression Test For Rock And Cementitious Artificial Materials. 71th Geological Congress of Turkey, Ankara, Turkey, pp. 623-624

Komurlu, E., Kesimal, A., 2017. Use of Plastic Composites as Friction Rock Bolt Materials. Regional African Rock Mechanics Symposium 2017 (Afrirock 2017), Cape Town, South Africa, pp. 123-142

Komurlu, E., Kesimal A., 2017. An Experimental Study on Determination of Crack Propagation Energies of Granite type Different Rock Materials under Impact Effect (in Turkish). National Symposium on Engineering Geology and Geotechnics 2017 (MühJeo 2017), Adana, Turkey, 12-14 October, 2017, pp. 231-238 (in Turkish)

Komurlu, E., Demir, A.D., 2017. A Numerical Modelling Study on Performance of Thin Spray-on (TSL) Liners. 25th International Mining Congress and Exhibition of Tukey (IMCET 2017), Antalya, Turkey, pp. 105-112

Komurlu, E., Kesimal, A., 2017. Usability of Thin Spray-on Liners (TSL) for Akarsen Underground Mine in Murgul. 25th International Mining Congress and Exhibition of Tukey (IMCET 2017), Antalya, Turkey, pp. 89-104

Komurlu, E., Kesimal, A., 2016. Improvement of support performances of rock bolts with Polyurea coating (In Turkish). XVIth National Soil Mechanics and Foundation Engineering Congress of Turkey, Erzurum/Turkey, pp. 439-446 (In Turkish)

Komurlu, E., Kesimal, A., Ercikdi, B., 2016. An Experimental Study on Determination of Indirect (splitting) Tensile Strength of Rock Materials using Loading Arcs with Various Contact Angles. International Black Sea Mining and Tunnelling Symposium 2016, Trabzon, Turkey, pp. 223-229

Komurlu, E., Kesimal, A., Durmus Demir, A., 2016. A Numerical Study on Evaluation of Indirect (Splitting) Tensile Strength of Rocks under Various Load Apparatus. International Black Sea Mining and Tunnelling Symposium 2016, Trabzon, Turkey, pp. 212-222

Komurlu, E., Kesimal, A., Demir, S., 2016. Spraying Membrane Layer Effect on Load Bearing Performance of Concrete Liners. European Rock Mechanics Symposium 2016 (EUROCK 2016), Cappadocia, Turkey, pp. 715-719

Komurlu, E., Kesimal, A., Durmus Demir, A., 2016. A Numerical Study for Determining Ideal Size and Geometry of Dog bone shaped direct tensile strength test specimens. European Rock Mechanics Symposium 2016 (EUROCK 2016), Cappadocia, Turkey, pp. 325-330

Ucuncuoglu, A., Komurlu, E., 2015. A General view on mining history of Gumushane city in Ottoman Era (in Turkish). 1st Conference on Historical Mining Sites of Turkey, Trabzon, Turkey, pp. 99-105 (In Turkish)

Komurlu, E., Kesimal, A., 2015. Rock Bolting from Past to Present in 20 Inventions. 1st Conference on Historical Mining Sites of Turkey, Trabzon, Turkey, pp. 68-87

Komurlu, E., Kesimal, A., Özkan F.S., 2015. Use of Various Loading Apparatus in Indirect (Brazilian) Tensile Strength test of Rock Materials (in Turkish). National Symposium on Engineering Geology 2015 (MühJeo 2015), Trabzon, Turkey, pp. 238-245 (In Turkish)



Komurlu, E., Kesimal, A., Demir, S., 2015. A Numerical Study on Deformation Measurement of Rock Materials using Electrical Resistance Strain Gauges: Investigation of Adhesive Type and Thickness Effect. 24th International Mining Congress and Exhibition of Turkey (IMCET 2015), Antalya, Turkey, pp. 407-412

Komurlu, E., Kesimal, A., Colak, U., 2014. Polyurea type Thin Spray-on Liner Coating to Prevent Rock Bolt Corrosion. 8th Asian Rock Mechanics Symposium, pp. 1389-1397, Sapporo, Japan.

Komurlu, E., Kesimal A., 2013. New Support Materials for Forepoling and Umbrella Applications (in Turkish). 3rd International Symposium and Exhibition on Underground Excavations for Transportation. 29-30 November, İstanbul/Turkey, pp. 423-435.

Komurlu, E., Kesimal, A., Ercikdi, B., 2013. An Investigation of Uncemented Paste Backfill Applicability. And, Consolidation Effects on Inaccuracy of Paste Backfill in situ Strength Estimation by Laboratory Tests. 23th International Mining Congress and Exhibition of Tukey (IMCET 2013), pp. 1017-1024, Antalya, Turkey.

Komurlu, E., Kesimal, A., Bekar, H., 2013. Effects of Fly Ash Usage on Concrete Flexural Strength Reinforcing Efficiency of Steel Fiber. 23th International Congress and Exhibition of Tukey (IMCET 2013), pp. 597-609, Antalya, Turkey.

Komurlu, E., Kesimal, A., 2012. Polymer Fiber and Steel Fiber Comparision as Concrete Additive. 16th International Metallurgy and Materials Congress, pp. 1129-1137, İstanbul, Turkey.

Komurlu, E., Kesimal, A., 2012. New Engineering Materials for Underground Constructions. 16th International Metallurgy and Materials Congress, pp. 307-319, İstanbul, Turkey.

Komurlu, E., Kesimal A., 2012. Jaw Effect on Indirect Tensile Strength Test Disk Failure Mechanism. 7th Asian Rock Mechanics Symposium, pp. 624-637, Seoul, South Korea.

Komurlu, E., Kesimal, A., 2012. Using Sprayed Polymer as Tunnel Support. 7th Asian Rock Mechanics Symposium, pp. 1486-1499, Seoul, South Korea.

Komurlu, E., Kesimal, A., 2012. Investigation of polyurethane reinforced soil strength (in Turkish). XIVth National Soil Mechanincs and Foundation Engineering Congress of Turkey, Isparta/Turkey, pp. 631-642 (in Turkish)

Komurlu, E., Kesimal, A., 2011. Effect of Polymer Fiber on the Shotcrete Tunnel Support. RockMec'2011, Xth Regional Rock Mechanics Symposium, Ankara/Turkey, pp. 47-55 (in Turkish)

#### *4.3. Books/Chapters*

Komurlu, E., 2024. Doğu'nun İlk İki Üniversitesinin Kuruluş Tarihçeleri üzerine Karşılaştırmalı bir İnceleme (Chapter title in English: A Comparative Review on Foundation Histories of the Earliest Two Universities of the East), In Book: "Mühendislik ve Mimarlık Öyküleri 10", TMMOB, Ankara, pp. 57-89, ISBN: 978-605-01-1638-0 (in Turkish)

Komurlu, E., 2024. Kaya Mekanikçiker için Bilim Tarihi Notları (Book title in English: History of Science Notes for Rock Mechanicians). Mayeb Press Company, Ankara, ISBN: 978-605-72270-2-7 (in Turkish)

Komurlu, E., 2023. Technical English of Geomechanics: Terms, Translation and Question Examples, Mayeb Press Company, Ankara, ISBN: 978-605-72270-0-3

Aksoy, C.O., Komurlu, E., 2017. Temel Kaya Mekaniği (Chapter title in English: Fundamentals of Rock Mechanics), In Book: “Temel Madencilik Bilgileri” (in Turkish), Mayeb Press Company, Ankara, pp. 1-69, ISBN: 978-605-64724-1-1

Aksoy, C.O., Komurlu, E., 2017. Tahkimat (Chapter title in English: Support), In Book: “Temel Madencilik Bilgileri” (in Turkish), Mayeb Press Company, Ankara, pp. 69-137, ISBN: 978-605-64724-1-1

## 5. Thesis

Komurlu, E., Effects of Rock and Granular Material Horizontal Stresses on Support Design. MSc Thesis, Karadeniz Technical University, Trabzon, Turkey, 2012.

Komurlu, E., Usability of Various Engineering Polymers as Rock Bolt Materials, PhD Thesis, Karadeniz Technical University, Trabzon, Turkey, 2016

## 6. Projects and Site Works

- a) *“Investigation of Paste Backfill Barricade Supports of Cayeli Copper Mine and New Barricade Designs”*, site work supported by Inmet Mining Co. Cayeli Copper Mine, Technical report was delivered in March 2012. Members of project: Ayhan Kesimal (KTU) , Mustafa Yazıcı (Inmet Mining Co.\*), Eren Komurlu (KTU)
- b) *“Polymer Coating for Preventing Rock Bolt Corrosion and Investigation of Polymer Coated Rock Bolt (PWRB) Support Efficiency”*, site work supported by Inmet Mining Co. Cayeli Copper Mine – Technical report was delivered in December 2013. Members of project: Ayhan Kesimal (KTU) , Mustafa Yazıcı (First Quantum Minerals Ltd.\*) , Eren Komurlu (KTU), Ümit Çolak (First Quantum Minerals Ltd.), duty in project: researcher
- c) *“Effects of Polypropylene Type Polymer Fiber Additive on Shotcrete Tunnel Support and Its Comparison with Steel Fiber Additive”*, Karadeniz Technical University Scientific Research Project (BAP02) – Finalised in February 2013, Members of Project: Ayhan Kesimal (KTU), Eren Komurlu (KTU), duty in project: researcher
- d) *“Use of the PP-R composite friction rock bolts at Küre underground copper mine“*, site work supported by ETİ Bakır Inc., performed in July and August 2015, Duty in project: Researcher carrying out field tests.
- e) *“Use of Friction Rock Bolts with Plastic Body”*, Karadeniz Technical University Scientific Research Project (BAP02), Project ID: 5396, Completed Project (Final report has been delivered, time to finish project: March 2017), Duty in Project: Researcher, Project Coordinator: Prof. Dr. Ayhan Kesimal.

- f) *“Investigation of Supplying the Stability of Paste Backfill with Sulphide-rich Mine Tailings using acid neutralization materials”* Karadeniz Technical University Scientific Research Project (BAP06), Project ID: 5500, Completed Project (time to finish project: July 2019), Duty in Project: Researcher, Project Coordinator: Assoc. Prof. Dr. Bayram Ercikdi.
- g) *“Use of Thin Spray-on Liners in Akarsen Underground Mine of ETI Bakir Inc.”*, Karadeniz Technical University Circulating Capital Project (Report has been delivered, time to finish project: November 2016), Payer: ETI Bakir Inc. Co., Members of Project: Ayhan Kesimal (KTU), Eren Komurlu (KTU), Serhat Demir (KTU), Ali Osman Cakir (KTU)
- h) *“Support Design for Cerattepe Underground Mine of ETI Bakir Inc.”* Karadeniz Technical University Circulating Capital Project (Report has been delivered, time to finish project: September 2017), Payer: ETI Bakir Inc. Co., Members of Project: Ayhan Kesimal (KTU), Eren Komurlu (KTU)
- i) *“Cemented Rockfill design for Gumustas Underground mine in Gumushane city”*, Karadeniz Technical University Circulating Capital Project (Report has been delivered, time to finish project: June 2017), Payer: Gumustas Mining and Trade Inc. Co., Members of Project: Ibrahim Cavusoglu (GU), Selcuk Alemdag (GU), Ali Osman Yilmaz (KTU), Eren Komurlu (KTU), Gokhan Kulekci (GU)
- j) *“Support Design for Murgul Derivation Tunnels”* Karadeniz Technical University Circulating Capital Project (Report has been delivered, time to finish project: April 2017), Payer: ETI Bakir Inc. Co., Members of Project: Ayhan Kesimal (KTU), Eren Komurlu (KTU)
- k) *“Geotechnical assessment of production method of South mineralization zone in Akarsen Mine”*, Karadeniz Technical University Circulating Capital Project (Report has been delivered, time to finish project: November 2017), Payer: ETI Bakir Inc. Co., Members of Project: Ayhan Kesimal (KTU), Eren Komurlu (KTU)
- l) *“Cemented Rock Fill Design for Cerattepe Underground Mine”* Karadeniz Technical University Circulating Capital Project (Report has been delivered, time to finish project: November 2017), Payer: ETI Bakir Inc. Co., Members of Project: Ayhan Kesimal (KTU), Eren Komurlu (KTU)
- m) *“Investigation of the ideal method and specimen properties in tests for determination of the Atterberg limits in consideration of the void ratio effect”*. Giresun University Scientific Research Project (GRUBAP-A type project), Project ID: FEN-BAP-A-150219-27, Starting time: March 2019, Final report has been delivered. Time to finish Project: March 2020, Members of Project: Eren Komurlu (GRU), Atila Gürhan Çelik (GRU), Duty in project: Coordinator
- n) *“Investigation of water isolation problems of the buildings in Gure Campus”*, site work by the technical commission tasked by Giresun University Rectorate (The technical report was delivered in November 2019). (Members of working commission: Burhanettin Şemsi Altan, Atila Gurhan Celik, Ahmet Apaydın, Eren Komurlu, Coskun Şenturk)
- o) *“Investigation of load bearing capacities of grouted rock bolts with auxetic heads”* Giresun University Scientific Research Project (GRUBAP-A type project), Project ID: FEN-BAP-A-270220-29, Starting time: April 2020, final report has been delivered, time to

finish project: April 2021, Members of Project: Eren Komurlu (GRU), Atila Gürhan Çelik (GRU), Duty in project: Coordinator

- p) *“Use of Full Domestic Products in Concrete Designs of Bulancak Beton Inc. Co.”* Giresun University Circulating Capital Project (Final report has been delivered, time to finish project: March 2020), Members of Project: Atila Gurhan CELİK (GRU), Eren KOMURLU (GRU), Payer: Bulancak Beton Inc. Co.
- q) *“Use of Full Domestic Products in Concrete Designs of Espiye Energy and Construction Ltd. Co.”* Giresun University Circulating Capital Project (Final report has been delivered, time to finish project: April 2020), Members of Project: Atila Gurhan Celik (GRU), Eren Komurlu (GRU), Payer: Espiye Energy and Construction Ltd. Co.
- r) *“Geotechnical site investigation for Giresun University Morphology Building near the Aksu River”*, Technical report of the working commission tasked by Giresun University Rectorate was delivered in April 2020. (Members of working commission: Atila Gurhan Celik, Eren Komurlu, Mustafa Erdinç Gümüş)
- s) *“Support and pillar designs for Germece Underground Salt Mine”*, Karadeniz Technical University Circulating Capital Project (final report has been delivered in December 2020), Payer: Safir Tuz Food, Mining, Marketing and Construction Inc. Co., Members of Project: Ayhan Kesimal (KTU), Bayram Ercikdi (KTU), Ferdi Cihangir (KTU), Ayberk Kaya (RTEU), Eren Komurlu (GRU)
- t) *“A new pre-compression plate design study to improve insertion practicality and support performances of split set type friction rock bolts”*. Giresun University Scientific Research Project (GRUBAP-A type project), Project ID: FEN-BAP-A-250221-16 (final report has been delivered in April 2022). Members of Project: Eren Komurlu (GRU), Atila Gürhan Çelik (GRU), Ibrahim Gunes (GRU), Duty in project: Coordinator
- u) *“Slope design for Kovanlık quarry in Bulancak district”*. Giresun University Circulating Capital Project. Payer: ORBEL Inc. Co., Members of Project: Atila Gürhan Celik (GRU), Eren Komurlu (GRU), final report has been delivered in May 2021.
- v) *“A wall element with light aggregate production and determination of mechanical properties”* Giresun University Scientific Research Project (GRUBAP-A type project), Project ID: FEN-BAP-A-270220-29 (final report has been delivered in January 2022). Members of Project: Atila Gürhan Celik (GRU), Eren Komurlu (GRU), Kadir Akgöl (GRU), Hayri Metin Numanoglu (GRU), Duty in project: Researcher
- w) *“Usability of Fenolic Foam products of FMY Chemical Inc. Co. for Cavity filling in mining operations”*, Payer: FMY Chemical Inc. Co., Giresun University Circulating Capital Project (Final report has been delivered in April 2021). Members of working group: Eren Komurlu (GRU), Atila Gürhan Celik (GRU)
- x) *“An investigation of the stress relaxation effect on the mechanical parameters of different type cohesive soils”*. Giresun University Scientific Research Project (GRUBAP-A type project), Project ID: FEN-BAP-A-240222-45 (final report has been delivered in February 2023). Members of Project: Eren Komurlu (GRU), Atila Gürhan Çelik (GRU), Duty in project: Coordinator

- y) “*Support design for main haulage galleries of Çakmakkaya Underground Mine of ETİ Bakir Inc. Co.*”. Giresun University Circulating Capital Project (Final report has been delivered in March 2022), Payer: Eti Bakir Inc. Co., duty in project: coordinator
- z) “*Slope stability analyses for Kızılkaya open pit mine in Espiye district*”. Giresun University Circulating Capital Project (Final report has been delivered in April 2022), Payer: ETİ Bakir Inc. Co., duty in project: coordinator
- aa) “*Subsidence investigations for Sogukpinar underground mine of the ETİ Bakir Inc. Co. Lahanos exploitation management*”. Giresun University Circulating Capital Project (Final report has been delivered in March 2022), Payer: ETİ Bakir Inc. Co., duty in project: coordinator
- bb) “*Geotechnical investigations for the waste dump-site of the Kızılkaya open pit mine*”. Giresun University Circulating Capital Project (Final report has been delivered in May 2022), Payer: ETİ Bakir Inc. Co., duty in project: coordinator
- cc) “*Investigation commission report for Gorele Faculty of Fine Arts Building*”, Technical report of the working commission tasked by Giresun University Rectorate was delivered in May 2022. (Members of working commission: Ahmet Apaydın, Eren Komurlu, Yasemin Baran, Kadir Akgol, Furkan Gunday)
- dd) “*Geotechnical investigations for mineral processing plant tailings accumulation site of the Kızılkaya open pit mine*”, Giresun University Circulating Capital Project (Final report has been delivered in June 2022), Payer: ETİ Bakir Inc. Co., duty in project: coordinator
- ee) “*Geotechnical investigations for new mineral processing plant foundations in the Kızılkaya district*”, Giresun University Circulating Capital Project (Final report has been delivered in July 2022), Payer: ETİ Bakir Inc. Co., duty in project: coordinator
- ff) “*Investigation of the strength values of various concrete mixtures prepared by using different rock materials in the vicinity of Lahanos Enterprise of ETİ Bakir Inc. Co.*”, Giresun University Circulating Capital Project (Final report has been delivered in August 2022), Payer: ETİ Bakir Inc. Co., duty in project: coordinator
- gg) “*Usability of Insilex branded silicate-based grouting material in underground coal mining*”, Payer: FMY Chemical Inc. Co., Giresun University Circulating Capital Project (Final report has been delivered in November 2022), duty in project: coordinator
- hh) “*Stability investigations of the retaining wall behind the faculty of dentistry building of Giresun University*”, site work by the technical commission tasked by Giresun University Rectorate (The technical report was delivered in November 2022). (Members of working commission: Gurol Yıldırım, Eren Komurlu, Furkan Gunday)
- ii) “*Physical properties of dredging material specimens from Yalıköy Fishing Shelter*”, Payer: Akue Engineering and Environmental Consultancy Co., Giresun University Circulating Capital Project (Final report has been delivered in October 2022), duty in project: coordinator
- jj) “*Use of microgrid fiber for soil reinforcement as a new type of geosynthetics*”, Giresun University Scientific Research Project (GRUBAP-A type project), Members of project:

Eren Komurlu, Atila Gurhan Celik (accepted in April 2023), Project ID: FEN-BAP-A-090323-24, duty in project: coordinator

kk) *“Effect of different geofiber types on the liquefaction resistance of a sandy silt type soil”*, Giresun University Scientific Research Project (GRUBAP-A type project), accepted in March 2024, Members of project: Eren Komurlu, Atila Gurhan Celik, Project ID: FEN-BAP-A-290224-02, final report has been delivered in March 2025, duty in project: coordinator

ll) *“Use of microgrid fiber as a new additive for improving strength and deformability properties of cement stabilized sand mixes”*, Giresun University Scientific Research Project (GRUBAP-A type project), accepted in March 2025, Members of project: Eren Komurlu, Atila Gurhan Celik, Project ID: FEN-BAP-A-110225-46, ongoing project, duty in project: coordinator

mm) *“Investigation of the use of Geokrete brand geopolymer product as a novel rock bolt grout material”*, Payer: CRAS Solutions Co., Giresun University Circulating Capital Project (Final report has been delivered in June 2025), duty in project: coordinator

(\*) Inmet Mining Co. was acquired by First Quantum Minerals Ltd. in March 2013

## **7. Consultancy**

Cerattepe and Akarsen underground copper mines, Artvin, Turkey, ETI Bakir Inc. Co. (Geomechanical consultancy between November 2016 and April 2018)

FMY Chemicals Inc. Co., Development of ground injections and polymeric reinforcement material products of FMY Chemical Inc. Co. (Geomechanical consultancy from March 2021 to March 2022)

Cakmakkaya underground copper mine, Murgul, Artvin, ETI Bakir Inc. Co. (Geomechanical consultancy from November 2021 to July 2022)

Kızılkaya open pit mine, Lahanos, Giresun, ETI Bakir Inc. Co. (Geomechanical consultancy from February 2022 to November 2022)

## **8. Administrative Duties in Academy**

Head of Geotechnics Division of Civil Engineering Department, Giresun University (February 2018-...)

Vice Chairman of Civil Engineering Department of Giresun University (October 2018 - March 2025)

Erasmus (European Union student exchange programme) Coordinator of Civil Engineering Department (March 2018-...) and Engineering Faculty of Giresun University (September 2023-June 2025)

Vice Dean of Engineering Faculty of Giresun University (March 2025-...)

## **9. Seminars and further presentations**

### **9.1. Seminars**

“Usage of Spraying Thermoplastic Polymers as Tunnel Support”, Karadeniz Technical University Mining Engineering Department, Trabzon (2011)

“Mega Underground Constructions and New Support Materials”, Karadeniz Technical University Mining Engineering Department, Trabzon (2013)

“Ground Conditions with Rock Burst Risk and Support Principles“, Karadeniz Technical University Mining Engineering Department, Trabzon (2014)

“Polyurea type Thin Spray-on Liner Coating to Improve Rock Bolt Performance”, The University of Queensland School of Civil Engineering, Brisbane (2014)

“Use of Engineering Polymers as Frictional Rock Bolt Materials”, The University of Queensland School of Civil Engineering, Brisbane (2015)

“Reinforcing Rock Columns using Heated Polymeric Ties“, an online presentation of ISRM Commission on Preservation of Ancient Sites (2015): <https://www.youtube.com/watch?v=34Vnv2bIkZ4>

“Historical Mining Museums in World and Their Functions”, Karadeniz Technical University Mining Engineering Department, Trabzon (2015)

“New Frontiers of the Mine Support”, ETİ Bakir Inc. Co. Murgul Operation Management Building, Artvin (2016)

“Preservation Suggestions for the Titus Tunnel, a Roman Tunnel in Turkey”, within Giresun University Civil Engineering Department Seminars-5, Giresun University, Giresun (2019)

“Rock Bolts and Support Mechanisms”, an online presentation in Turkish (2020): [https://www.youtube.com/watch?v=dr3\\_XceWj5U](https://www.youtube.com/watch?v=dr3_XceWj5U)

“Coal Mining in the Ottoman Era” online webinar presentation on Arkeolojihaber youtube channel (2020): <https://www.youtube.com/watch?v=i61punjqZso> (in Turkish)

More videos on various topics of geotechnical engineering are available on Eren Kömürlü youtube channel (annual view number is over 10000 for the videos, link: <https://www.youtube.com/channel/UCLwLX7jgNWCEd7WCImHudyQ>)

“Innovative Solution Examples in Geotechnical Engineering”, a seminar organized by Giresun branch of the Chamber of Civil Engineers (IMO Giresun), Giresun Provincial Directorate of Environment, Urbanization and Climate Change Building, Giresun (2024)

### **9.2. Conference, Symposiums & Congress:**

- 10th Regional Rock Mechanics Symposium, Turkey, 2011 (1 oral presentation)

- 7th Asian Rock Mechanics Symposium, South Korea, 2012 (2 oral presentations)
- 16th International Metallurgy and Materials Congress, Turkey, 2012 (1 oral and 1 poster presentations)
- 23th International Mining Congress and Exhibition of Turkey, Turkey, 2013 (2 oral presentations)
- 3rd International Symposium and Exhibition on Underground Excavations for Transportation, Turkey, 2013 (1 oral presentation)
- 8th Asian Rock Mechanics Symposium, Japan, 2014 (1 oral presentation)
- MuhJeo 2015, National Engineering Geology Symposium of Turkey, Turkey, 2015 (1 oral presentation)
- 1st Conference on Historical Mining Sites of Turkey, Turkey, 2015 (2 oral presentations)
- Eurock 2016, European Rock Mechanics Symposium, Turkey, 2016 (2 oral and 1 poster presentations)
- 16th National Soil Mechanics and Foundation Engineering Congress of Turkey (1 oral presentation)
- International Black Sea Mining and Tunnelling Symposium, Turkey, 2016 (2 oral presentations)
- 25th International Mining Congress and Exhibition of Turkey, Turkey, 2017 (2 oral presentations)
- “Dusunden Gercegine 2017” Karadeniz Technical University Technology Transfer Office’s Project Exhibition, Turkey, 2017 (1 poster presentation)
- MuhJeo 2017, National Symposium on Engineering Geology and Geotechnics, Turkey, 2017 (1 oral presentation)
- Afrirock 2017, 2017 International ISRM Symposium, South Africa, 2017 (1 oral presentation)
- 71th Geological Congress of Turkey, 2018 (1 oral presentation)
- 2nd Conference on Historical Mining Sites of Turkey, 2018 (1 oral presentation)
- 12th Regional Rock Mechanics Symposium, Turkey, 2018 (1 oral presentation)
- 72nd Geological Congress of Turkey, 2019 (1 oral presentation)
- MES 2019, Mining Engineering Symposium, Turkey, 2019 (1 oral presentation)
- MuhJeo2019, National Symposium on Engineering Geology and Geotechnics, Turkey, 2019 (1 oral presentation)
- 3rd Conference on Historical Mining Sites of Turkey, 2020 (1 oral presentation)
- Eurock 2021, European Rock Mechanics Symposium, Italy, 2021 (1 oral presentation)
- 4th Conference on Historical Mining Sites of Turkey, 2022 (1 oral presentation)
- 13th Regional Rock Mechanics Symposium, Turkey, 2022 (1 oral presentation)
- 2nd International Symposium on Characterization (ISC’22), Turkey, 2022 (1 oral presentation)
- 75th Geological Congress of Turkey, 2023 (1 oral presentation)
- 3rd International Civil Engineering and Architecture Conference, Turkey, 2023 (1 oral presentation)
- 5th Conference on Historical Mining Sites of Turkey, 2024 (1 oral presentation)
- MuhJeo2024, National Symposium on Engineering Geology and Geotechnics, Turkey, 2024 (1 oral presentation)
- 77th Geological Congress of Turkey, 2025 (1 oral presentation)
- 14th Regional Rock Mechanics Symposium, Turkey (1 oral presentation)

### 9.3. Lectures taught & Further presentations



Weekly instructions of Laboratory Experiments within Rock Mechanics (MDM3003) and Soil Mechanics (MINE3003) Lectures, Karadeniz Technical University Mining Engineering Department, Trabzon (2010-2017)

Weekly instructions of Engineering Geology Lecture (INS102), Giresun University Civil Engineering Department, Giresun (2018-2020)

Weekly instructions of Soil Mechanics-1 Lecture (INS301), Giresun University Civil Engineering Department, Giresun (2018-...)

Weekly instructions of Soil Mechanics-2 Lecture (INS302), Giresun University Civil Engineering Department, Giresun (2018-...)

Weekly instructions of Technical English for Civil Engineering-1 Lecture (INS221), Giresun University Civil Engineering Department, Giresun (2018-...)

Weekly instructions of Technical English for Civil Engineering-2 Lecture (INS318), Giresun University Civil Engineering Department, Giresun (2019-...)

Weekly instructions of Strength of Materials-2 Lecture (INS206), Giresun University Civil Engineering Department, Giresun (2019-2021)

Weekly instructions of Rock Mechanics Lecture (INS405), Giresun University Civil Engineering Department, Giresun (2019-...)

Weekly instructions of Foundation Construction-1 Lecture (INS401), Giresun University Civil Engineering Department, Giresun (2019-...)

Weekly instructions of Polymer Materials Lecture (MM530), Giresun University Institute of Natural and Applied Sciences Mechanical Engineering Department, Giresun (2019-...)

Weekly instructions of Tunnel Construction Lecture (INS412), Giresun University Civil Engineering Department, Giresun (2020-...)

Weekly instructions of Geomorphology-1 Lecture (COG103), Giresun University Department of Geography, Giresun (2020-2021)

Weekly instructions of History of Science Lecture (INS222), Giresun University Department of Civil Engineering, Giresun (2021-...)

Weekly instructions of Geosynthetics Lecture (INS521), Giresun University Institute of Natural and Applied Sciences Department of Civil Engineering, Giresun (2021-...)

Weekly instructions of Supporting Underground Openings Lecture (INS565), Giresun University Institute of Natural and Applied Sciences Department of Civil Engineering, Giresun (2022-...)

## ***10. Honors and Awards***

Second-place ranked report writer of 50<sup>th</sup> years celebration competition of International Society for Rock Mechanics (ISRM): “The Future Directions of Engineering Rock Mechanics” (2011).

Finalist of product/equipment innovation of the year category of International Tunnelling Awards 2013. Name of the study: “Rock Bolt Corrosion Prevention: Coating with Thermoset Polymers“ (2013).

Tubitak 2214/A Grant of The Scientific and Technological Research Council of Turkey. Subject of study: “Usage of New Engineering Polymers as Tunnel Support Materials”, Grant to attend studies at The University of Queensland (May 2014–May 2015).

Winner of the “Initials in Mining 2014” award given by The Chamber of Mining Engineers of Turkey, Award winner work: “Usage of Thin Spray-on Liners to Improve Rock Bolt Performance (Award name is “Madencilikte İlkler 2014” in Turkish)

Second prize winner of the “2014 Golder Foundation’s Awards” for Ground Engineering Category, with a poster submission entitled “Improved Performance of Rock Bolts using Sprayed Polyurea Coating”.

The best ranking for 2015 academic incentive payment program in all Karadeniz Technical University academic staff

Winner of IASR (International Agency for Standards and Ratings) World Academic Championship - 2018 in Mining Engineering, best paper award winning with the paper entitled “An Experimental Study on Shear Strength of Cemented Paste Backfill Materials” (DOI: <http://dx.doi.org/10.19113/sdufbed.08547>)

Granted delegate to attend 5<sup>th</sup> Early Career Forum and European Rock Mechanics Symposium 2021 (Eurock2021) held in Torino, Italy (Delegation elected by Turkish National Society for Rock Mechanics, for the grant supplied by the ISRM, International Society for Rock Mechanics and Rock Engineering)

Receiving payments for 8 papers from TUBITAK (The Scientific and Technological Research Council of Turkey) incentive program for international scientific papers (UBYT) in 2015, 2016, 2017, 2018

The best ranking for 2019 academic incentive payment program in Giresun University Engineering Faculty’s academic staff (the rate is the 3rd in the all Giresun university academic staff)

2022 Publication Awards of Giresun University Scientific Research Projects Coordination Unit (Congratulatory certification and project budget award received in April 2023)

IAAM (International Association of Advanced Materials) Young Scientist Award 2024 (The award lecture presented within the online Advanced Materials Lecture Series, Lecture title: “Use of micro grid fiber additives as a new type of geosynthetics”)

## ***11. Reviewing & Editing:***

### *11.1. Reviewing*

#### *11.1.1. Journals*

Coupled Systems Mechanics (a paper in 2026)  
 Geomechanics and Geophysics for Geo-Energy and Geo-Resources (a paper in 2025)  
 Mining, Metallurgy & Exploration (two papers in 2025)  
 Northern Aegean Journal of Technical Sciences and Technology (a paper in 2025)  
 Engineering Applications of Artificial Intelligence (a paper in 2025)  
 Results in Engineering (a paper in 2024)  
 Civil Engineering Infrastructures Journal (a paper in 2024)  
 Underground Space (two papers in 2024)  
 Asian Journal of Geological Research (a paper in 2024)  
 International Journal of Mining Science and Technology (two papers in 2024)  
 Qeios (a paper in 2024)  
 Kuwait Journal of Science (a paper in 2024)  
 Engineering Science and Technology, an International Journal (a paper in 2024)  
 Environmental Earth Sciences (a paper in 2023)  
 Case Studies in Construction Materials (a paper in 2023)  
 Theoretical and Applied Fracture Mechanics (a paper in 2023)  
 Journal of Rock Mechanics and Geotechnical Engineering (two papers in 2023 and 2025)  
 Acta Geodaetica et Geophysica (two papers in 2023)  
 Applied Sciences (a paper in 2023)  
 Humanitas (a paper in 2023)  
 Yuzuncu Yil University Journal of the Institute of Natural and Applied Sciences (a paper in 2023)  
 ETU Journal of Science and Technology A- Applied Sciences and Engineering (a paper in 2023)  
 Water (a paper in 2023)  
 Pure and Applied Geophysics (a paper in 2022)  
 Environmental Earth Sciences (two papers in 2022)  
 Journal of Materials Research and Technology (a paper in 2022)  
 Arabian Journal for Science and Engineering (four papers in 2022, 2023, 2025)  
 Petroleum Science and Technology (a paper in 2022)  
 Energies (a paper in 2022)  
 Minerals (a paper in 2022)  
 Frontiers in Materials (a paper in 2022)  
 Journal of Geoengineering (a paper in 2022)  
 Uludag University Journal of the Faculty of Engineering (a paper in 2022)  
 Aurum Journal of Engineering Systems and Architecture (two papers in 2022 and 2023)  
 Journal of the Southern African Institute of Mining and Metallurgy (a paper in 2021)  
 Scientific Mining Journal (seven papers in 2021, 2023, 2024, 2025)  
 Proc. of the Institution of Civil Engineers: Geotechnical Engineering (two papers in 2021, 2022)  
 Gumushane University Journal of Science and Technology Institute (two papers in 2021, 2025)  
 International Journal of Geoengineering Case Histories (a paper in 2021)  
 The Blacksea Journal of Sciences (seven papers in 2021, 2023, 2024, 2025)  
 Bulletin of Engineering Geology and the Environment (eleven papers in 2020-2026)  
 Geosynthetics International (a paper in 2020)  
 Journal of Civil Engineering and Construction (three papers in 2020, 2021 and 2024)  
 Geoscience Engineering (two papers in 2020, 2021)  
 International Journal of Geosynthetics and Ground Engineering (a paper in 2020)  
 Energy Sources, *Part A: Recovery, Utilization & Environmental Effects* (a paper in 2020)  
 Scientific Reports (four papers in 2020, 2021 and 2025)  
 Journal of Engineering Mechanics (a paper in 2020)  
 Advances in Materials Research (a paper in 2020)  
 Recep Tayyip Erdogan University Journal of Science & Engineering (four papers in 2020-2023)  
 Frontiers in Earth Science (a paper in 2020)  
 Bulletin of the Mineral Research and Exploration (a paper in 2020)

Journal of the Faculty of Engineering and Architecture of Gazi University (a paper in 2020)  
 Pamukkale University Journal of Engineering Sciences (four papers in 2019, 2020, 2023, 2025)  
 Advances in Materials Science and Engineering (three papers in 2019, 2020)  
 Engineering Reports (a paper in 2019)  
 Duzce University Journal of Science and Technology (a paper in 2019)  
 Yerbilimleri, *Bulletin for Earth Sciences* (three papers in 2019, 2020, 2021)  
 Üniversite Araştırmaları Dergisi (Journal of University Research) (a paper in 2019)  
 DEU Faculty of Engineering Journal of Science & Engineering (three papers in 2019, 2021, 2023)  
 International Journal of Mining and Mineral Engineering (a paper in 2018)  
 Periodica Polytechnica Civil Engineering (ten papers in 2018-2025)  
 Engineering Geology (a paper in 2018)  
 Construction and Building Materials (four papers in 2017, 2021, 2022 and 2024)  
 International Journal of Geomechanics (fourteen papers in 2017, 2018, 2019)  
 The Open Civil Engineering Journal (two papers in 2017)  
 Tunnelling and Underground Space Technology (two papers in 2017, 2018)  
 Arabian Journal of Geosciences (sixteen papers in 2017, 2019, 2020, 2021, 2022, 2023, 2025)  
 International Journal of Rock Mechanics and Mining Sciences (two papers in 2016, 2018)  
 The Open Petroleum Engineering Journal (a paper in 2016)  
 Procedia Engineering (a paper in 2016)  
 Geotechnical and Geological Engineering (nine papers in 2016-2025)  
 Mathematical Problems in Engineering (a paper in 2016)  
 International Journal of Oil, Gas and Coal Technology (a paper in 2016)  
 Journal of Computational Methods in Sciences and Engineering (a paper in 2016)  
 Rock Mechanics and Rock Engineering (seven papers in 2015, 2018, 2019, 2022, 2023)  
 Geomechanics and Engineering (eight papers in 2015, 2017, 2018, 2020, 2021, 2023, 2024)  
 MT Bilimsel, *Journal of Underground Resources* (ten papers in 2015-2025)

### 11.1.2. Proceedings

14th Regional Rock Mechanics Symposium, Trabzon, Turkiye, 2025  
 5th Conference on Historical Mining Sites of Turkiye, Edirne, Turkiye, 2024  
 13th Regional Rock Mechanics Symposium, Isparta, Turkiye, 2022  
 5th Int. Conference on Material Strength and Applied Mechanics, Qingdao, China, 2022  
 3rd Int. Symposium on Water, Ecology and Environment (ISWEE 2022), Beijing, China, 2022  
 4th Conference of the Arabian Journal of Geosciences, Istanbul, Turkey, 2021  
 4th Int. Conference on Energy and Power Engineering (EPE2021), Guangzhou, China, 2021  
 Int. Online Conf. on Engineering and Natural Sciences (IOCENS21), Gumushane, Turkey, 2021  
 3rd Conference on Historical Mining Sites of Turkey, 2020  
 Int. Conf. on Innovative Solutions in Hydropower and Environmental Eng., Beijing, China, 2020  
 3rd International Conference on Numerical Modelling in Engineering, Macao, China, 2020  
 4th International Conference on Applied Mathematics and Sciences, Dubai, UAE, 2020  
 3rd Conference of the Arabian Journal of Geosciences, Sousse, Tunisia, 2020  
 2nd International Conference on Material Strength and Applied Mechanics, Kiev, Ukraine, 2019  
 12th Regional Rock Mechanics Symposium, Turkey, Trabzon, 2018  
 2nd Conference on Historical Mining Sites of Turkey, Trabzon, 2018  
 9th International Marble and Natural Stone Congress and Exhibition of Turkey, Antalya, 2017  
 1st Conference on Historical Mining Sites of Turkey, Trabzon, 2015

### 11.1.3. Projects

Tubitak1001-Scientific&Technological Research Projects (Reviewing a project submission,2025)  
 Gumushane University Scientific Research Projects (Reviewing a project submission, 2024)

Yalova University Scientific Research Projects (Reviewing a project submission, 2024)  
Giresun University Scientific Research Projects (Reviewing a final report, 2023)  
Afyon Kocatepe University Scientific Research Projects (Reviewing a final report, 2020)  
Trabzon Teknokent Technology Development Projects (Reviewing a project submission, 2019)

## *11.2. Editoring*

### *11.2.1. Journals & Periodical publications*

International Journal of Mining Science & Technology (Editorial board member since Jan. 2025)  
The Black Sea Journal of Sciences (Civil engineering field editor since October 2022)  
MT Bilimsel, *Journal of Underground Resources* (Editor since March 2018)  
MT Bilimsel, *Journal of Underground Resources* (Vice Editor, October 2015-March 2018)  
Northern Aegean Journal of Technical Sciences & Technology (Editorial board member since July 2025)  
Journal of Civil Engineering and Construction (Editorial board member since June 2020)  
Geoscience Engineering (Editorial board member since May 2019)  
Insight – Civil Engineering (Editorial board member since April 2018)  
Journal of Characterization (Editorial board member since March 2021)  
Journal of Polymer Science and Engineering (Editorial board member since January 2018)  
Nanoscience and Nanotechnology (Editorial board member, December 2017-May 2019)

### *11.2.2. Books & Proceedings*

Proceedings of 3rd Conference on Historical Mining Sites of Turkey, Trabzon, 2020

Proceedings Book of 12th Regional Rock Mechanics Symposium of Turkey (ed. by Ayhan Kesimal, Ferdi Cihangir and Eren Komurlu), 2018, ISBN: 978-975-93675-7-2

Proceedings Book of 2nd Conference on Historical Mining Sites of Turkey (ed. by Ayhan Kesimal, Eren Komurlu), Trabzon, 2018

“Temel Madencilik Bilgileri” (In English: Fundamental Mining Knowledge) book including 14 chapters in Turkish (ed. by C.Okay Aksoy, Eren Komurlu, Hasan E. Yaman), Publisher: Mayeb Press Company, Ankara, 2017, ISBN: 978-605-64724-1-1

Proceedings of 1<sup>st</sup> Conference on Historical Mining Sites of Turkey in a special issue of Mining Turkey Scientific (MT Bilimsel) Journal (ed. by Ayhan Kesimal, C. Okay Aksoy and Eren Komurlu), 2015, ISSN 2146-9431

## *12. Citations*

Total Citations: 916, h-index: 19

(Based on scholar.google.com, date accessed: January 27, 2026)

## *13. Memberships*

1. Chamber of Mining Engineers of Turkey (2010-2023)
2. International Society for Rock Mechanics and Rock Engineering (ISRM) (2010-...)

3. Turkish National Society for Rock Mechanics (2010-...)
4. KTU Mining Association (2015-...)
5. ISRM Commission on Preservation of Ancient Sites (2014-2023)
6. Asian Technical Committee on Geo Engineering for Conservation of Heritage Monuments and Historical Sites (ATC 19, ISSMGE) (2014-...)

#### ***14. Duties in Scientific Events***

Organization Committee Member of 1st Conference on Historical Mining Sites of Turkey (Organized by KTU Mining Engineering Department and ISRM Commission on Preservation of Ancient Sites, December 3-5, 2015, Trabzon, Turkey)

Organization Committee Member of 12nd Regional Rock Mechanics Symposium of Turkey (Organized by KTU Mining Engineering Department and Turkish National Society for Rock Mechanics, October 3-5, 2018, in Trabzon, Turkey)

Organization Committee Member of 2nd Conference on Historical Mining Sites of Turkey (Organized by KTU Mining Engineering Department and ISRM Commission on Preservation of Ancient Sites, October 2, 2018, Trabzon, Turkey)

Organization Committee Member of 3rd Conference on Historical Mining Sites of Turkey (Organized by KTU Mining Engineering Department, KTU Mining Association and Giresun University Civil Engineering Department, March 25, 2020, Trabzon, Turkey)

Organization Committee Member of 4th Conference on Historical Mining Sites of Turkey (Organized by Yasar University, KTU Mining Engineering Department, KTU Mining Association, May 12-May 14, 2022, Izmir, Turkey)

Organization Committee Member of 5th Conference on Historical Mining Sites of Turkey (Organized by Trakya University Archeology Department, KTU Mining Engineering Department, May 8-May 10, 2024, Edirne, Turkey)

Organization Committee Member of 14th Regional Rock Mechanics Symposium of Turkey (Organized by KTU Mining Engineering Department and Turkish National Society for Rock Mechanics, October 1-3, 2025, in Trabzon, Turkey)

Scientific committee member of 2017 International Conference on Mechanics, Mathematics and Applied Physics, ICMMAP 2017, 24-26 Nov. 2017, Huhhot, Inner Mongolia, China

Scientific committee member of 9th International Marble and Natural Stone Congress and Exhibition of Turkey, Organized by The Chamber of Mining Engineers of Turkey, December 13-15, 2017, Antalya, Turkey

Scientific committee member of 2nd International Conference on Mechanics, Mathematics and Applied Physics, ICMMAP 2018, 28-30 Sep. 2018, Zhuhai, China

Scientific committee member of Mining Engineering Symposium 2019, MES 2019, Organized by KTU Mining Association, March 1, 2019, Trabzon, Turkey

Scientific committee member of 3rd International Conference on Mechanics, Mathematics and Applied Physics, ICMMAP 2019, July 26-28, 2019, Guilin, China

Scientific committee member of 2nd Mining Engineering Symposium, MES 2020, Organized by KTU Mining Engineering Department and KTU Mining Association, March 26, 2020, Trabzon, Turkey

Scientific committee member of 4th International Conference on Contemporary Affairs in Architecture and Urbanism (ICCAUA 2021), May 20-21, 2021, Antalya, Turkey

Scientific committee member of IOCENS21 International Online Conference on Engineering and Natural Sciences, April 20-22, 2021, Gumushane, Turkey

Scientific committee member of 2021 International Workshop on Soil Mechanics and Geotechnical Engineering (IWSMGE2021), a session of ICCE 2021 (8th International Conference on Civil Engineering), December 4-5, 2021, Nanchang, China

Scientific committee member of ISCS21 (1st International Symposium on Characterization), October 8-9, 2021, online scientific event, organized from Afyon and Giresun cities, Turkey

Scientific committee member of 13th Regional Rock Mechanics Symposium (Rockmec'2022), May 26-28, 2022, Isparta, Turkey

Scientific committee member of ISCS22 (2nd International Symposium on Characterization), September 22-25, 2022, Afyonkarahisar, Turkey

Coordinator of meeting and workshop of ISRM Commission on Preservation of Ancient Sites within the European Rock Mechanics Symposium 2016 (Eurock 2016), August 28-31, 2016, Cappadocia, Turkey

Coordinator of Giresun University Civil Engineering Seminars 1-2-3-4-5-7, 2018, 2019 and 2021, Giresun, Turkey

Session Chairing, 1st Conference on Historical Mining Sites of Turkey, 2015, Trabzon, Turkey

Session Chairing, International Black Sea Mining and Tunnelling Symposium 2016, 2016, Trabzon, Turkey

Session Chairing, 25th International Mining Congress and Exhibition of Turkey, 2017, Antalya, Turkey

Session Chairing, 12th Regional Rock Mechanics Symposium, 2018, Trabzon, Turkey

Session Chairing, 4th Conference on Historical Mining Sites of Turkey, 2022, Izmir, Turkey

Session Chairing, 13th Regional Rock Mechanics Symposium, 2022, Isparta, Turkey

Session Chairing, 14th Regional Rock Mechanics Symposium, 2025, Trabzon, Turkey

### ***15. Jury membership***

PhD. Thesis by Muhammet Sari, thesis entitled: "Investigation of the Effect of Tea Wastes on Cemented Paste Backfill Performances", Jury member for the thesis defense, Recep Tayyip

Erdogan University, Graduate School of Natural and Applied Sciences, Department of Civil Engineering, December 10, 2025, Rize, Turkey

MSc. Thesis by Burak Oden, thesis entitled “Determination of Particulate Emissions and Distribution in Open Pit Mines: Giresun Example”, Jury member for the thesis defense, Giresun University, Natural and Applied Sciences Institute, Environmental Engineering, November 11, 2025, Giresun, Turkey

MSc. Thesis by Tunahan Polat, thesis entitled “An investigation of bearing capacity and settlement values of foundation piles in a hangar construction with different methods”, Jury member for the thesis defense, Giresun University, Natural and Applied Sciences Institute, Civil Engineering, January 7, 2025, Giresun, Turkey (as supervisor)

PhD. Thesis by Nihat Utku Guner, thesis entitled: “Investigation of using crushed sand in cemented paste backfill”, Jury member for the thesis defense, Recep Tayyip Erdogan University, Graduate School of Natural and Applied Sciences, Department of Civil Engineering, December 19, 2024, Rize, Turkey

MSc. Thesis by Fatih Cebir, thesis entitled: “Design of partially isolated shear connector for c-section cold formed steel-concrete composite beams”, Jury member for the thesis defense, Karadeniz Technical University, Natural and Applied Sciences Institute, Civil Engineering, December 16, 2024, Trabzon, Turkey

MSc. Thesis by Tugba Keskin, thesis entitled “Investigation of Mechanical and Micro-structural Properties of Industrial Solid Waste Substituted Cemented Paste Backfill Materials”, Jury member for the thesis defense, Recep Tayyip Erdogan University, Graduate School of Natural and Applied Sciences, Department of Civil Engineering, June 27, 2024, Rize, Turkey

Msc. Thesis by Veysel Karakaya, thesis entitled “Effect of different fiber use on the strength values of a silicate resin added sand type soil”, Jury member for the thesis defense, Giresun University, Natural and Applied Sciences Institute, Civil Engineering, March 22, 2024, Giresun, Turkey (as supervisor)

PhD Thesis by Melek Hanim Beser, thesis entitled “Investigation of the Deformation Properties of the Failure of Rocks under Cyclic Loading”, Jury member for the thesis defense, Karadeniz Technical University, Natural and Applied Sciences Institute, Mining Engineering, February 19, 2024, Trabzon, Turkey

MSc. Thesis by Abdoulrazack Djama Abdillahi, thesis entitled “Investigation of the usability of limestones near Seydikoy (Eldivan, Çankırı) as concrete aggregates”, Jury member for the thesis defense, Çankırı Karatekin University, Graduate School of Natural and Applied Sciences, Department of Civil Engineering, July 27, 2022, Çankırı, Turkey

MSc. Thesis by Muhammet Sari, thesis entitled “Investigation of Soil-Structure Interaction of an Industrial Chimney”, Jury member for the thesis defense, Recep Tayyip Erdogan University, Graduate School of Natural and Applied Sciences, Department of Civil Engineering, July 13, 2020, Rize, Turkey

PhD Thesis by Tamer Efe, thesis entitled “Determination of tensile strengths of rock materials with different direct and indirect test methods”, Jury member for the thesis defense, Süleyman Demirel University, Natural and Applied Sciences Institute, Mining Engineering, March 8, 2019, Isparta, Turkey



Giresun University Faculty of Engineering academic staff applications pre-assessment jury member for more than fifteen staff positions in 2019-2025

Oral examination jury for student applications to Master degree program of Mechanical Engineering, Giresun University Graduate School of Natural and Applied Sciences, July 2019

Giresun University Project Support and Management Coordinatorship, member of Engineering Projects Commission since September 2021.

### **16. Further knowledge/interests**

- Guitar playing
- More than 50 performances on stages from 1998 to 2013
- Eren KÖMÜRLÜ guitarist project was established in 2004
- Full-length music album “Çöl Gecesi” was realized in 2008 (in Sweden and Turkey)
- A song was published in “Shredding across the World” guitarist compilation album (in USA, 2009)
- Music composing for 2 theatre plays (“Woyzeck” – George Buchner - Theatre Ayakbagi, “Bişey yap met” – Aziz Nesin - Hacettepe University Drama Group) in 2008
- Authoring on music in “Rock Station” music magazine for 3 years (2005-2008)
- Vice Chairman of Hacettepe University Rock Music Community (2006-2008)
- Playing and watching Basketball
- Playing Basketball in Ankara DSI Spor (2000-2001) and Turk Telekom (2001-2002) youth (U-16) basketball teams
- Coaching Basketball team of Giresun University Engineering Faculty competing in the Giresun university sports tournaments (2021-2022, 2022-2023, 2024-2025 seasons)

### **17. Social Networking Links**

Researchgate: [https://www.researchgate.net/profile/Eren\\_Komurlu](https://www.researchgate.net/profile/Eren_Komurlu)

Academia: <https://giresun.academia.edu/Erenkomurlu>

Linkedin: <https://www.linkedin.com/in/eren-komurlu-88b91650/>

Twitter: <https://twitter.com/erenkomurlu>

Mygeoworld: <https://www.mygeoworld.com/profile/Eren>

Youtube: <https://www.youtube.com/channel/UCLwLX7jgNWCEd7WCImHudyQ>

ORCID: <https://orcid.org/0000-0002-2123-7678>

Google Scholar: <https://scholar.google.com/citations?user=EOHF2iEAAAAJ>

Instagram: <https://www.instagram.com/eren.komurlu/>

Facebook: <https://www.facebook.com/eren.komurlu.1>

Adscientificindex: <https://www.adscientificindex.com/scientist/eren-komurlu/183295>