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Research Areas

Geophysical Engineering, Seismology, Engineering and Technology

Academic Titles / Tasks

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik, 2014 - Continues

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik, 2008 - 2013

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik, 2000 - 2007

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik, 1990 - 2000

Academic and Administrative Experience

Agri Ibrahim Cecen University, 2014 - 2016

Karadeniz Technical University, 2014 - 2014

Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik, 2000 - 2014

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **New macroseismic intensity predictive models for Turkey**
BAYRAK E., Nas M., BAYRAK Y.
ACTA GEOPHYSICA, vol.67, no.6, pp.1483-1513, 2019 (Journal Indexed in SCI)
- II. **Spatiotemporal Comparison of Declustered Catalogs of Earthquakes in Turkey**
Nas M., Jalilian A., BAYRAK Y.
PURE AND APPLIED GEOPHYSICS, vol.176, no.6, pp.2215-2233, 2019 (Journal Indexed in SCI)
- III. **Temporal and spatial variations of Gutenberg-Richter parameter and fractal dimension in Western Anatolia, Turkey**
BAYRAK E., YILMAZ Ş., BAYRAK Y.
JOURNAL OF ASIAN EARTH SCIENCES, vol.138, pp.1-11, 2017 (Journal Indexed in SCI)
- IV. **An investigation of seismicity for the Central Anatolia region, Turkey**
Ozmen B., BAYRAK E., BAYRAK Y.
JOURNAL OF SEISMOLOGY, vol.18, no.3, pp.345-356, 2014 (Journal Indexed in SCI)
- V. **Analysis of Largest Earthquakes in Turkey and its Vicinity by Application of the Gumbel III Distribution**
Tsapanos T. M. , BAYRAK Y., ÇINAR H., Koravos G. C. , BAYRAK E., KALOGIROU E. E. , TSAPANOU A. V. , VOUGIOUKA G. E.
ACTA GEOPHYSICA, vol.62, no.1, pp.59-82, 2014 (Journal Indexed in SCI)
- VI. **Seismogenesis and earthquake triggering during the Van (Turkey) 2011 seismic sequence**
BAYRAK Y., Yadav R. B. S. , Kalafat D., Tsapanos T. M. , ÇINAR H., Singh A. P. , BAYRAK E., YILMAZ Ş., Ocal F., Koravos

G.

TECTONOPHYSICS, vol.601, pp.163-176, 2013 (Journal Indexed in SCI)

VII. **Spatial mapping of earthquake hazard parameters in the Hindukush-Pamir Himalaya and adjacent regions: Implication for future seismic hazard**

Yadav R. B. S. , Tsapanos T. M. , Koravos G. C. , BAYRAK Y., DEVLİOTI K. D.

JOURNAL OF ASIAN EARTH SCIENCES, pp.115-124, 2013 (Journal Indexed in SCI)

VIII. **Discrimination of earthquakes and quarry blasts in the eastern Black Sea region of Turkey**

YILMAZ Ş., BAYRAK Y., ÇINAR H.

JOURNAL OF SEISMOLOGY, vol.17, no.2, pp.721-734, 2013 (Journal Indexed in SCI)

IX. **Probabilistic Appraisal of Earthquake Hazard Parameters Deduced from a Bayesian Approach in the Northwest Frontier of the Himalayas**

Yadav R. B. S. , Tsapanos T. M. , BAYRAK Y., Koravos G. C.

PURE AND APPLIED GEOPHYSICS, vol.170, no.3, pp.283-297, 2013 (Journal Indexed in SCI)

X. **An Evaluation of Earthquake Hazard Potential for Different Regions in Western Anatolia Using the Historical and Instrumental Earthquake Data**

BAYRAK Y., BAYRAK E.

PURE AND APPLIED GEOPHYSICS, vol.169, no.10, pp.1859-1873, 2012 (Journal Indexed in SCI)

XI. **Regional variations and correlations of Gutenberg-Richter parameters and fractal dimension for the different seismogenic zones in Western Anatolia**

BAYRAK Y., BAYRAK E.

JOURNAL OF ASIAN EARTH SCIENCES, vol.58, pp.98-107, 2012 (Journal Indexed in SCI)

XII. **A Probabilistic Assessment of Earthquake Hazard Parameters in NW Himalaya and the Adjoining Regions**

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XIII. **Regional variation of the omega-upper bound magnitude of GIII distribution in Hindukush-Pamir Himalaya and the adjacent regions: A perspective on earthquake hazard**

Yadav R. B. S. , BAYRAK Y., Tripathi J. N. , Chopra S., BAYRAK E.

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XIV. **Spatial variations of precursory seismic quiescence observed in recent years in the eastern part of Turkey**

Ozturk S., BAYRAK Y.

ACTA GEOPHYSICA, vol.60, no.1, pp.92-118, 2012 (Journal Indexed in SCI)

XV. **The North Anatolian Fault Zone: an Evaluation of Earthquake Hazard Parameters**

BAYRAK Y., ÇINAR H., Bayrak E.

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XVI. **Application of the normalized total gradient (NTG) method to calculate envelope of seismic reflection signals**

KARSLI H., BAYRAK Y.

JOURNAL OF APPLIED GEOPHYSICS, vol.71, pp.90-97, 2010 (Journal Indexed in SCI)

XVII. **Estimating earthquake hazard parameters from instrumental data for different regions in and around Turkey**

BAYRAK Y., OZTURK S., ÇINAR H., Kalafat D., Tsapanos T. M. , Koravos G. C. , Leventakis G.

ENGINEERING GEOLOGY, vol.105, pp.200-210, 2009 (Journal Indexed in SCI)

XVIII. **Comments on "An investigation of seismicity for western Anatolia" by Sayil and Osmansahin (2008)**

Bayrak Y.

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XIX. **A quantitative appraisal of earthquake hazard parameters computed from Gumbel I method for different regions in and around Turkey**

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- NATURAL HAZARDS, vol.47, no.3, pp.471-495, 2008 (Journal Indexed in SCI)
- XX. **Regional variation of the omega-Upper bound magnitude of GIII distribution in and around Turkey: Tectonic implications for earthquake hazards**
BAYRAK Y., OZTURK S., ÇINAR H., Koravos G. C. , Tsapanos T. M.
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- XXI. **Properties of the Aftershock Sequences of the 2003 Bingöl, MD = 6.4, (Turkey) Earthquake**
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- XXII. **Properties of the aftershock sequences of the 2003 Bingol, M-D=6.4, (Turkey) earthquake**
ÖZTÜRK S., ÇINAR H., BAYRAK Y., KARSLI H., DANIEL G.
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- XXIII. **Seismicity assessment for the different regions in and around Turkey based on instrumental data: Gumbel first asymptotic distribution and Gutenberg-Richter cumulative frequency law**
BAYRAK Y., OEZTUERK S., Koravos G. C. , Leventakis G. A. , Tsapanos T. M.
NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, vol.8, no.1, pp.109-122, 2008 (Journal Indexed in SCI)
- XXIV. **Relationships between fundamental seismic hazard parameters for the different source regions in Turkey**
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NATURAL HAZARDS, vol.36, no.3, pp.445-462, 2005 (Journal Indexed in SCI)
- XXV. **Using the Wiener-Levinson algorithm to suppress ground-roll**
KARSLI H., Bayrak Y.
JOURNAL OF APPLIED GEOPHYSICS, vol.55, pp.187-197, 2004 (Journal Indexed in SCI)
- XXVI. **Spatial and temporal variations of the aftershock sequences of the 1999 Izmit and Duzce earthquakes**
Bayrak Y., OZTURK S.
EARTH PLANETS AND SPACE, vol.56, no.10, pp.933-944, 2004 (Journal Indexed in SCI)
- XXVII. **Lateral variations of the modal (a/b) values for the different regions of the world**
Bayrak Y., YILMAZTURK A., OZTURK S.
JOURNAL OF GEODYNAMICS, vol.34, no.5, pp.653-666, 2002 (Journal Indexed in SCI)
- XXVIII. **Crustal seismicity in and around Turkey**
YILMAZTURK A., Bayrak Y., ÇAKIR O.
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- I. **Assessment of Earthquake Hazard Parameters with Bayesian Approach Method Around Karliova Triple Junction, Eastern Turkey**
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IOP Conference Series: Earth and Environmental Science, vol.95, 2017 (Refereed Journals of Other Institutions)
- II. **Spatial Variation of Seismic B-Values of the Empirical Law of the Magnitude-Frequency Distribution from a Bayesian Approach Based On Spline (B-Spline) Function in the North Anatolian Fault Zone, North of Turkey**
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- III. **The Mw 6.3 Shonbeh (Bushehr) mainshock, and its aftershock sequence: Tectonic implications and seismicity triggering**
BAYRAK Y.
Eastern Anatolian Journal of Science, vol.1, no.2, pp.43-56, 2015 (International Refereed University Journal)

- IV. **An Evaluation of Earthquake Hazard Parameters in and around Ağrı Eastern Anatolia Turkey**
BAYRAK Y., BAYRAK E., YILMAZ Ş., TÜRKER T.
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- V. **Precursory Seismic Quiescence Before 1 May 2003 Bingöl (Turkey) Earthquake: A Statistical Evaluation**
öztürk s., BAYRAK Y.
Journal of Applied Functional Analysis, vol.4, no.4, pp.600-610, 2009 (International Refereed University Journal)
- VI. **Earthquake Hazard Assesment For Different Regions in and around Turkey Based on Gutenberg-Richter Parameters by the Least Square Method**
BAYRAK Y., öztürk s., ÇINAR H.
Journal of Applied Functional Analysis, vol.4, no.2, pp.286-299, 2009 (International Refereed University Journal)
- VII. **Ground roll attenuation based on Wiener filtering and benefits of time-frequency imaging, Leading Edge**
KARSLI H., Bayrak Y.
Leading Edge, vol.27, pp.206-209, 2008 (Refereed Journals of Other Institutions)
- VIII. **Ground-roll attenuation based on Wiener filtering and benefits of time-frequency imaging**
KARSLI H., BAYRAK Y.
The Leading Edge, vol.1, no.1, pp.206-209, 2008 (Other Refereed National Journals)
- IX. **31 Temmuz 2005 Bala (Ankara) depremi, MD=4.9, artçı şok dizisinin istatistiksel olarak değerlendirilmesi ve artçı şok parametrelerinin bölgesel değişimleri**
ÖZTÜRK S., BAYRAK Y.
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- X. **Global Depremlerin Cisim ve Yüzey Dalgası Magnitüdüleri Arasındaki İlişkilerin Karşılaştırılması**
BAYRAK Y.
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- XI. **Doğu Akdeniz ve Ortadoğuda Oluşan Depremlerin Kırılma Mekanizması ve Gerilim Azalımı**
BAYRAK Y.
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- XII. **Türkiye ve Civarında Sismik Moment ve Gerilim Dağılımı**
BAYRAK Y.
Yerbilimleri Hacettepe Üniversitesi Yerbilimleri Uygulama ve Araştırma Dergisi, pp.1-15, 1998 (National Refreed University Journal)
- XIII. **Global Depremlerle Açığa Çıkan Sismik Enerjinin Zaman ve Uzay Dağılımı**
BAYRAK Y.
Deprem Araştırma Bülteni, vol.1, no.1, pp.17-53, 1997 (Other Refereed National Journals)
- XIV. **Basit ve Kompleks Olayların İstatistiksel Dağılımı: Global Depremlerin Genel Özellikleri**
BAYRAK Y.
Deprem Araştırma Bülteni, vol.1, no.1, pp.54-85, 1997 (Other Refereed National Journals)
- XV. **Akustik Dalga Denkleminin Sonlu Farklar Yöntemi ile Çözümü ve Çeşitli Jeolojik Yapıların Modellenmesi**
BAYRAK Y.
Süleyman Demirel Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.1, no.1, pp.1-13, 1995 (National Refreed University Journal)
- XVI. **Sismik Prospeksiyonda Çeşitli Jeolojik Yapılar İçin Ayrımlılık Analizi**
BAYRAK Y.
Süleyman Demirel Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.1, no.1, pp.14-26, 1995 (National Refreed University Journal)

Books & Book Chapters

I. The North Anatolian Fault Zone: an Evaluation of Earthquake Hazard Parameters

BAYRAK Y., ÇINAR H., BAYRAK E.

in: New Frontiers in Tectonic Research - At the Midst of Plate Convergence, Uri Schattner , Editor, İntech, Zagreb, pp.269-280, 2011

Refereed Congress / Symposium Publications in Proceedings

I. The Hartley Transform and Its Some Applications in Geophysics

BAYRAK Y.

First congress of the Balkan Geophysical Society, Greece, vol.1, no.1, pp.110

II. Doğu Anadolu Fayı için b-Dc İlişkisi

BAYRAK Y., BAYRAK E., YILMAZ Ş.

Türkiye 20. Uluslararası Jeofizik Kongresi ve Sergisi, Antalya, Turkey, vol.1, no.1, pp.1

III. A study on the aftershock sequences of earthquakes occurred in Turkey

ÖZTÜRK S., BAYRAK Y.

International Conference on Environment: Survival and Sustainability,, Cyprus (Kktc), vol.1, no.1, pp.672

IV. Perceptive Comments on the Deterministic Simulations of Intensity Attenuation in Turkey

BAYRAK Y.

2. Balkan Geophysical Congress and Exhibition, İstanbul, Turkey, vol.1, no.1, pp.234

V. A Preliminary Crustal Study in and around Eastern Black Sea from Rayleigh Surface Wave Group Velocity Inversion

ÇINAR H., ALKAN H., BAYRAK Y.

6th Congress of Balkan Geophysical Society, Hungary, vol.1, no.1, pp.1

VI. Farklı Yöntemlerle Deprem Kayıtlarının Zaman-Frekans Analizi

BAYRAK Y., YILMAZ Ş., BAYRAK E.

1. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı,, Ankara, Turkey, pp.1

VII. Kent Planlamasında Deprem Risk Faktörünün Değerlendirilmesi, Gümüşhane Örneği, (An Assessment of the Earthquake Risk Factor in the City Planning, the Example of Gümüşhane)

BAYRAK Y.

Mühendislik Jeolojinde Çağdaş Uygulamalar Sempozyumu Kitabı, Denizli, Turkey, pp.1

VIII. Relationships between basic seismic hazard parameters for various regions of Turkey

BAYRAK Y.

The 17th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, vol.1, no.11, pp.14

IX. Regional variability of frequency-magnitude distribution and temporal decay rate of the aftershock sequence of the 2003 Denizli (Turkey) Mw=5.4 earthquake

ÖZTÜRK S., BAYRAK Y.

The 16th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, vol.1, no.1, pp.136

X. Spatial Analysis of Aftershock Sequences of the 1999 İzmit, Mw=7.4 and Düzce-Bolu, Mw=7.2 (Turkey) Earthquakes

ÖZTÜRK S., BAYRAK Y.

The 3rd International Conference on Earth Sciences and Electronics (ICESE-2003), İstanbul, Turkey, vol.1, no.1, pp.59

XI. 3 Şubat 2002 Afyon-Sultandağı Depremi Artçı Şok Aktivitesinin Uzaysal ve Zamana Bağlı Değişimleri

ÖZTÜRK S., BAYRAK Y.

İ. Ü. Mühendislik Fakültesi Mühendislik Bilimleri Genç Araştırmacılar 1. Kongresi,, İstanbul, Turkey, pp.1

XII. 1 Mayıs 2003 Bingöl Depremi Artçı Şok Aktivitesinin Deprem Sayısı – Magnitüd Dağılımının ve Zamanla Azalma Oranının Bölgesel Değişimleri

ÖZTÜRK S., BAYRAK Y.

Deprem Sempozyumu Kocaeli 2005, Kocaeli, Turkey, pp.1

XIII. 3 Şubat 2002 Sultandağı-Çay (Afyon) Depremleri ve Artçı Sarsıntılarının İstatistiksel Olarak

Değerlendirilmesi

ÖZTÜRK S., BAYRAK Y.

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XIV. Erzurum ve Civarının Depremselliği

BAYRAK Y.

1. Doğu Anadolu ve Kafkasya Depremleri Jeofizik Toplantısı, Erzurum, Turkey, pp.1

XV. Earthquake hazard assessment for different regions in and around Turkey based on Gutenberg-Richter parameters by the least square method

BAYRAK Y., ÖZTÜRK S., ÇINAR H.

2. International interdisciplinary chaos symposium, İstanbul Kültür University, İstanbul, İstanbul, Turkey, vol.1, no.1, pp.1

XVI. Sismik Prospeksiyonda Çeşitli Jeolojik Yapılar İçin Ayrımlılık Analizi

BAYRAK Y.

Süleyman Demirel Üniversitesi VIII. Mühendislik Haftası, 76, Isparta,, Isparta, Turkey, pp.1

XVII. 1999 İzmit ve Düzce Depremlerinin Artçı Şok Dizilerinin Zamanla Azalma Oranlarının Bölgesel Jeoloji ve Topografya ile İlişkisi

BAYRAK Y., ÖZTÜRK S.

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XVIII. Aletsel Dönem Deprem Kataloğu Kullanılarak Türkiye İçin Hesaplanan Arias Şiddeti Haritaları

BAYRAK Y., ÇINAR H., ÖZTÜRK S., KARSLI H.

6. Ulusal Deprem Konferansı, İstanbul, Turkey, vol.2, pp.425

XIX. Seismicity of Turkey in the Twentieth Century

BAYRAK Y.

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XX. Statistical analysis of the aftershock sequences that occurred in Turkey during 1995-2004

ÖZTÜRK S., BAYRAK Y.

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XXI. A Ground-roll attenuation technique based on Wiener filtering

KARSLI H., BAYRAK Y.

(Seismic Noise: Origin, Prevention, Mitigation, Utilization) SEG Summer Research Workshop, Antalya, Turkey, vol.1, no.1, pp.1

XXII. Correlation between the Values of b and DC for the Different Regions in the Western Anatolia

BAYRAK E., BAYRAK Y.

6th Congress of Balkan Geophysical Society, Hungary, vol.1, no.1, pp.1

XXIII. Farklı Sismik Bölgeler Dikkate Alınarak Türkiye'deki Deprem Tehlikesi Çalışmalarında Kullanılabilecek Homojen Deprem Kataloğunun Hazırlanması

ÖZTÜRK S., BAYRAK Y., KARSLI H., ÇINAR H.

6. Ulusal Deprem Konferansı, İstanbul, Turkey, vol.2, pp.347

XXIV. 11 Ağustos 2004 Elazığ (Sivrice)depremi artçı şok dizisinin zaman-bölge-magnitüd değişimlerinin analizi

ÖZTÜRK S., BAYRAK Y.

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XXV. En Büyük Olasılık Yöntemi Kullanılarak Batı Anadolu' nun Farklı Bölgelerinde Aletsel Dönem İçin Deprem Tehlike Analizi

BAYRAK Y., BAYRAK E.

1. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Ankara, Turkey, pp.1

XXVI. Spatial Features of the 2003 Bingol Aftershock Pattern:The Modified Omori and Constant Seismicity Rate Models

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The 17th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, vol.1, no.32, pp.14

XXVII. Distribution of Stress Drop In and Around Turkey

- BAYRAK Y.
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- XXVIII. **Sismik Risk Parametreleri Açısından Türkiye Depremselliği**
BAYRAK Y.
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- XXIX. **Precursory seismic quiescence before 1 May 2003 Bingöl (Turkey) earthquake: a statistical evaluation**
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2. International interdisciplinary chaos symposium, İstanbul Kültür University, İstanbul, İstanbul, Turkey, vol.1, no.1, pp.1
- XXX. **31 Temmuz Bala (Ankara) depremi, Md=4.9, artçışok dizisinin istatistiksel olarak değerlendirilmesi ve artçışok parametrelerinin bölgesel değişimleri”, İstanbul Kültür Üniversitesi, Kaos ve Karmaşık Sistemler**
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1. Disiplinlerarası Kaos sempozyumu Uluslar arası Katılımlı,, İstanbul, Turkey, pp.1
- XXXI. **Tectonics and Seismicity of Baku and Surrounding Area**
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- XXXII. **28 Mart 2004 Erzurum depremi, Md=5.3, artçışok aktivitesi için sismosite parametreleri b ve p değerlerinin bölgesel değişimleri**
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İ. Ü. Mühendislik Fakültesi Mühendislik Bilimleri Genç Araştırmacılar 2. Kongresi,, İstanbul, Turkey, pp.1
- XXXIII. **Evaluation of Earthquake Hazard Parameters for the Different Regions in the Western Anatolia for Whole Time Periods**
BAYRAK Y., BAYRAK E.
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- XXXIV. **The Variation of Stress Drop for Different Regions of the World”,**
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3. Balkan Geophysical Congress and Exhibition, Bulgaria, vol.1, no.1, pp.161
- XXXV. **Evidence for the seismic quiescence prior to the January 25, Hakkari (Mw=5.9), Earthquake, Turkey**
ÖZTÜRK S., BAYRAK Y.
International Earthquake Symposium Kocaeli 2009, Kocaeli, Turkey, vol.1, no.1, pp.1
- XXXVI. **The Relationships between Ms and Mw Magnitudes for Different Regions of the World**
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3. Balkan Geophysical Congress and Exhibition, Bulgaria, vol.1, no.1, pp.163
- XXXVII. **Artçı Şokların Deprem Kataloglarından Çıkarılması; Kuzey Anadolu Fayı ve Doğu Anadolu Fayı İçin Bir Uygulama**
YILMAZ Ş., BAYRAK Y., BAYRAK E.
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- XXXVIII. **Doğu Karadeniz Bölgesi ve Civarının Depremselliği**
BAYRAK Y.
Doğu Karadeniz Bölgesi Doğal Kıranları, Yer Araştırmaları ve Yer Seçimi Toplantısı, Trabzon, Turkey, pp.15
- XXXIX. **Statistical Assesment of the Aftershock Sequences for Bingöl (Turkey) Earthquake of 2003 May 1**
ÖZTÜRK S., BAYRAK Y.
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- XL. **Temporal and Spatial Variations of b-value in the Western Anatolia”, 6th Congress of Balkan Geophysical Society**
BAYRAK E., BAYRAK Y.
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- XLI. **Doğu Karadeniz bölgesinde son yıllarda yapılan patlatmalarla oluşan depremlerin ayırt edilmesi**

YILMAZ Ş., BAYRAK Y., ÇINAR H.

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- XLII. **An Evolution of Earthquake Hazards Parameters Based on the Instrumental Data for Different Seismic Regions of Turkey and Adjacent Area**
BAYRAK Y., ÖZTÜRK S.
International Earthquake Symposium, Kocaeli, Turkey, Kocaeli, Turkey, vol.1, no.1, pp.1
- XLIII. **1 Ekim 1995 Dinar (Afyon) Depremi Artçı Şok Aktivitesinin Zamanla Azalma Oranı ve Uzaysal Analizi**
ÖZTÜRK S., BAYRAK Y.
Süleyman Demirel Üniversitesi Jeofizik Sempozyumu, Isparta, Turkey, pp.1
- XLIV. **Spatial variations of seismicity rate precursor to the Erzurum (Turkey) earthquake sequences on March 25 and 28, 2004**
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