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Publons / Web Of Science ResearcherID: AAZ-9427-2020

ScopusID: 57209723426

Yoksis Araştırmacı ID: 11925

Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Türkiye 1985 - 1991

Yaptığı Tezler

Doktora, Torque noise models for x-ray binaries, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, 1991

Araştırma Alanları

Fizik, Astronomi ve Astrofizik, Temel Astronomi ve Astrofizik: Enstrümantasyon, Teknikler ve Astronomik gözlemler, Yıldız Sistemleri;Yıldızlararası ortam;galaktik ve galaksi dışı nesnelere ve sistemler;evren, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, 2001 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1998 - 2003

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1996 - 1998

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1991 - 1998

Yönetilen Tezler

BAYKAL A., Investigating the effects of outbursts on pulsars, the case of 2S 1417-624, Yüksek Lisans, Ö.CAN(Öğrenci), 2022

BAYKAL A., Spectral analysis of an ultraluminous x-ray source swift J0243.6+6124, Yüksek Lisans, G.ISLAMOV(Öğrenci), 2021

BAYKAL A., The pulse frequency noise of magnetars and persistent accretion powered pulsars, Doktora, D.SERİM(Öğrenci), 2021

BAYKAL A., Pulse timing studies of X-ray binaries: GX 1+4, Swift J0513.4-6547, X Persei and SXP 1062, Doktora, M.MİRAC(Öğrenci), 2019

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BAYKAL A., Investigation of quasi-periodic noise features in X-Persei, Yüksek Lisans, Z.ACUNER(Öğrenci), 2014

BAYKAL A., Timing properties of recently discovered soft gamma repeaters, Yüksek Lisans, M.MİRAC(Öğrenci), 2012

BAYKAL A., Viscous time scale in accreting powered pulsars and anomalous X-ray pulsars, Yüksek Lisans, B.İÇDEM(Öğrenci), 2011

BAYKAL A., X-ray and optical observations of high mass x-ray binaries, Doktora, E.BEKLEN(Öğrenci), 2010

BAYKAL A., X-ray spectral and timing studies of the high mass X-ray binary pulsar 4U 1907+09, Yüksek Lisans, Ş.ŞAHİNER(Öğrenci), 2009

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BAYKAL A., Galaktik mikrokuazarlar GRO J1655-40 ve GRS 1915+105'in Chandra ve RXTE gözlemleri, Yüksek Lisans, G.Esra(Öğrenci), 2006

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Timing analysis of Swift J0243.6+6124 with NICER and Fermi/GBM during the decay phase of the 2017-2018 outburst**
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- II. **Pulse frequency fluctuations of persistent accretion powered pulsars**
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- III. **Timing and spectral analysis of 2S 1417-624 during its 2018 outburst**
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- IV. **Comprehensive analysis of the transient X-ray pulsar MAXI J1409 619**
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- V. **Pulse frequency fluctuations of magnetars**
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- VI. **Dense matter with eXTP**
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VII. **Observatory science with eXTP**

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VIII. **Accretion in strong field gravity with eXTP**

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IX. **Discovery of a glitch in the accretion- powered pulsar SXP 1062**

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XI. **RXTE and Swift Observations of SWIFT J0513.4-6547**

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XII. **Timing studies of X Persei and the discovery of its transient quasi-periodic oscillation feature**

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XIV. **A comprehensive study of RXTE and INTEGRAL observations of the X-ray pulsar 4U 1907+09**

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XVI. **Timing and X-ray spectral features of Swift J1626.6-5156**

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XVII. **Viscous timescale in high mass X-ray binaries (Research Note)**

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XVIII. **Analysis of RXTE-PCA Observations of SMC X-1**

İNAM S. Ç., BAYKAL A., Beklen E.

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XIX. **THE ORBITAL PERIOD OF SWIFT J1626.6-5156**

BAYKAL A., GÖĞÜŞ E., İNAM S. Ç., Belloni T.

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XX. **Optical and X-ray outbursts of Be/X-ray binary system SAX J2103.5+4545**

Kiziloglu U., Ozbilgen S., Kiziloglu N., BAYKAL A.

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XXI. **RXTE-PCA observations of XMMU J054134.7-682550**

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XXII. **Recent torque reversal of 4U 1907+09**

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XXIII. **Recent RXTE/ASM and ROTSEIII observations of EXO 2030+375 (V2246 Cygni)**

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- XXIV. **Optical variabilities in the Be/X-ray binary system - GRO J2058+42 (CXOU J205847.5+414637)**
Kiziloglu U., Kiziloglu N., Baykal A., Yerli S. K., Ozbey M.
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- XXV. **Timing studies on RXTE observations of SAX J2103.5+4545**
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- XXVI. **Optical observations of the Be/X-ray transient system KS 1947+300**
Kiziloglu U., Baykal A., Kiziloglu N.
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- XXVII. **Pulsar braking indices, glitches and energy dissipation in neutron stars**
Alpar M. A., Baykal A.
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- XXVIII. **Evidence of a change in the long-term spin-down rate of the X-ray pulsar 4U 1907+09**
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- XXX. **ROTSE observations of the young cluster IC 348**
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- XXXI. **X-ray spectral evolution of Her X-1 in a low state and the following short high state**
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- XXXII. **Discovery of a soft spectral component and transient 22.7 second quasi-periodic oscillations of SAX J2103.5+4545**
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- XXXIII. **X-ray flux related timing and spectral features of 2S 1417-62**
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- XXXIV. **The first hours of the optical afterglow from the cosmic gamma-ray burst 030329**
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- XXXVI. **Hydrothermal and microwave synthesis of boron phosphate, BPO(4)**
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- XXXVII. **Discovery of the orbit of the transient X-ray pulsar SAX J2103.5+4545**
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- XXXVIII. **Differences between the two anomalous X-ray pulsars: variations in the spin-down rate of 1E 1048.1-5937 and an extended interval of quiet spin-down in 1E 2259+586**
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- XXXIX. **X-ray powder diffraction and IR study of NaMg(H₂O)(₂)[BP208]center dot H₂O and NH₄Mg(H₂O)(₂)[BP208]center dot H₂O**
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- XL. **Short-term pulse frequency fluctuations of OAO 1657-415 from RXTE observations**
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- XLI. **Post-glitch RXTE-PCA observations of the Vela pulsar**
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- XLII. **X-ray flux and pulse frequency changes of three high mass X-ray binary pulsars: Vela X-1, GX 301-2 and OAO 1657-415**
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- XLIII. **The timing noise of PSR 0823+26, 1706-16, 1749-28, 2021+51 and the anomalous braking indices**
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- XLIV. **Spin down and oscillations in 4U 1907+09: a retrograde disk?**
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- XLV. **Spin-down rate of 1E 2259+586 from RXTE observation**
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- XLVI. **Recent X-ray measurements of the accretion-powered pulsar 4U 1907+09**
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- XLVII. **The spectrum and dips of RE 0751+14: A joint evaluation of ROSAT and ASCA archival data**
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- XLVIII. **The torque and X-ray flux changes of OAO 1657-415**
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- XLIX. **Low frequency flickering of TT Arietis: Hard and soft X-ray emission region**
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- LI. **EXPECTANCY OF LARGE PULSAR GLITCHES - A COMPARISON OF MODELS WITH THE OBSERVED GLITCH SAMPLE**
 ALPAR M., BAYKAL A.
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- LII. **A STATISTICAL STUDY OF THE 164 DAY CLOCK NOISE OF THE RELATIVISTIC BEAMS IN SS-433**
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- LIII. **THE NOISE IN THE 35-D CYCLE OF HER X-1**
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- LIV. **AN EMPIRICAL TORQUE NOISE AND SPIN-UP MODEL FOR ACCRETION-POWERED X-RAY PULSARS**
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LV. A SHOT NOISE MODEL FOR A 2-COMPONENT NEUTRON-STAR

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Diğer Dergilerde Yayınlanan Makaleler

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II. Long term optical observations of Be X Ray binary system V0332 53

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. X Ray Timing Properties of GX 1 4

SERİM M. M., Sahiner S., Serim Cerri D., Inam S. C., BAYKAL A.

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III. RXTE an Swift Observations of SWIFT J0513 4 6547

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VI. Pulse Profiles of Swift J1626.6+5156

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VII. Recent Spin Rate Measurements of 4U 1907+09

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IX. Expectancy of large pulsar glitches

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Desteklenen Projeler

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Metrikler

Yayın: 69

Atıf (WoS): 874

Atıf (Scopus): 628

H-İndeks (WoS): 18

H-İndeks (Scopus): 15

Ödüller

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Akademi Dışı Deneyim

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