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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-7078-2020

ScopusID: 57190732046

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Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 1984 - 1990

Postgraduate, Karadeniz Technical University, Fen Fakültesi, Fizik Bölümü, Turkey 1981 - 1983

Undergraduate, Selcuk University, Faculty Of Science, Department Of Physics, Turkey 1976 - 1980

Research Areas

Physics, Nuclear physics, General Nuclear Reactions, Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2002 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1994 - 2001

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1993 - 1995

Lecturer PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1990 - 1993

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1984 - 1990

Research Assistant, Yüzüncü Yıl Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1981 - 1984

Advising Theses

YILMAZ O., Quantal description of spinodal instabilities in a symmetric nuclear matter, Doctorate, F.ACAR(Student), 2017

YILMAZ O., Gamma-ray spectroscopy and multipolarity measurements of the proton-rich nucleus ^{91}Ru , Postgraduate, Ö.AKTAŞ(Student), 2013

YILMAZ O., Gamma-ray spectroscopy and multipolarity measurements of the proton-rich nucleus ^9eRu , Postgraduate, Ö.Aktaş(Student), 2013

YILMAZ O., Semi-classical description of spinodal instabilities of asymmetric nuclear matter in a relativistic stochastic model, Postgraduate, S.SAATÇI(Student), 2013

YILMAZ O., Spinodal instabilities in symmetric nuclear matter within a density-dependent relativistic mean-field

approach, Postgraduate, B.DANIŞMAN(Student), 2011

YILMAZ O., Spinodal instabilities in symmetric nuclear matter within a nonlinear relativistic mean-field approach, Postgraduate, F.ACAR(Student), 2011

YILMAZ O., Analysis of kappa meson in light cone QCD sum rules, Postgraduate, G.BAYTEMİR(Student), 2011

YILMAZ O., Nuclear spinodal instabilities in stochastic mean-field approaches, Doctorate, N.ER(Student), 2009

YILMAZ O., Stochastic approach to fusion dynamics, Doctorate, B.YILMAZ(Student), 2007

YILMAZ O., Scalar mesons in radiative phi-meson decays into neutral K-meson states, Postgraduate, C.ŞİŞMAN(Student), 2006

YILMAZ O., Multidimensional quantum tunnelling formulation of oxygen-16 and uranium-238 reaction, Postgraduate, M.Tamer(Student), 2004

YILMAZ O., Multimedimensional quantum tunnelling formulation of oxygen-16 and uranium-238 reaction, Postgraduate, T.MURAT(Student), 2004

YILMAZ O., Collisional effects in isovector response function of nuclear matter at finite temperature, Doctorate, K.BOZKURT(Student), 2003

YILMAZ O., The effects of p-w mixing in radiative vector meson decays, Doctorate, A.KÜÇÜKARSLAN(Student), 2003

YILMAZ O., Some theoretical investigations concerning vector meson photoproduction, Doctorate, H.BABACAN(Student), 2002

YILMAZ O., Collisional damping of giant resonances with finite range effective interaction, Postgraduate, A.Tarikci(Student), 2001

YILMAZ O., Scalar meson contributions to radiative vector meson decays, Postgraduate, Y.SARAÇ(Student), 2001

YILMAZ O., Collisional damping of grant resonances with finite range effective interaction, Postgraduate, A.TARİKÇİ(Student), 2001

YILMAZ O., Temperature dependent isovector response function of nuclear matter with skryme forces, Postgraduate, K.BOZKURT(Student), 1999

YILMAZ O., Temperature dependent isovector response function of nuclear matter with skyrme forces, Postgraduate, K.Bozkurt(Student), 1999

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A theoretical study on quasifission and fusion–fission processes in heavy-ion collisions**
Kayaalp A., Ocal S., Yapraklı B., ARIK M., Ayik S., YILMAZ O., Umar A.
European Physical Journal A, vol.60, no.4, 2024 (SCI-Expanded)
- II. **Description of the multinucleon transfer mechanism for Ca 48 + Pu 244 and Kr 86 + Pt 198 reactions in a quantal transport approach**
Arik M., Ayik S., Yilmaz O., Umar A. S.
Physical Review C, vol.108, no.6, 2023 (SCI-Expanded)
- III. **Multinucleon transfer mechanism in Cf 250 + Th 232 collisions using the quantal transport description based on the stochastic mean-field approach**
Ayik S., ARIK M., YILMAZ O., YILMAZ B., Umar A.
Physical Review C, vol.107, no.1, 2023 (SCI-Expanded)
- IV. **Quantal diffusion description of isotope production via the multinucleon transfer mechanism in Ca-48+U-238 collisions**
Ayik S., Arik M., Karanfil E. C., YILMAZ O., Yilmaz B., Umar A. S.
PHYSICAL REVIEW C, vol.104, no.5, 2021 (SCI-Expanded)
- V. **Merging of transport theory with the time-dependent Hartree-Fock approach: Multinucleon transfer in U+ U collisions**
Ayik S., Yilmaz B., Yilmaz O., Umar A. S.
Physical Review C, vol.102, no.2, 2020 (SCI-Expanded)
- VI. **Quasi-fission and fusion-fission reactions in Ca-48+Pb-208 collisions at E-c.m.=190 MeV**
Yilmaz O., Turan G., Yilmaz B.

- EUROPEAN PHYSICAL JOURNAL A, vol.56, 2020 (SCI-Expanded)
- VII. **Heavy-isotope production in Xe-136 + Pb-208 collisions at E-c.m. =514 MeV**
Ayik S., Yilmaz O., Yilmaz B., Umar A. S.
PHYSICAL REVIEW C, vol.100, no.4, 2019 (SCI-Expanded)
- VIII. **Quantal diffusion approach for multinucleon transfers in Xe plus Pb collisions**
Ayik S., Yilmaz B., Yilmaz O., Umar A. S.
PHYSICAL REVIEW C, vol.100, no.1, 2019 (SCI-Expanded)
- IX. **Multinucleon transfer in Ni-58+Ni-60 and Ni-60+Ni-60 in a stochastic mean-field approach**
Yilmaz B., Ayik S., Yilmaz O., Umar A. S.
PHYSICAL REVIEW C, vol.98, 2018 (SCI-Expanded)
- X. **Quantal diffusion description of multinucleon transfers in heavy-ion collisions**
Ayik S., Yilmaz B., Yilmaz O., Umar A. S.
PHYSICAL REVIEW C, vol.97, 2018 (SCI-Expanded)
- XI. **Multinucleon transfer in central collisions of U-238+U-238**
Ayik S., YILMAZ B., YILMAZ TÜZÜN Ö., Umar A. S., TURAN G.
PHYSICAL REVIEW C, vol.96, no.2, 2017 (SCI-Expanded)
- XII. **Quantal nucleon diffusion: Central collisions of symmetric nuclei**
Ayik S., YILMAZ TÜZÜN Ö., YILMAZ B., Umar A. S.
PHYSICAL REVIEW C, vol.94, no.4, 2016 (SCI-Expanded)
- XIII. **Multinucleon exchange in quasifission reactions**
Ayik S., YILMAZ B., YILMAZ O.
PHYSICAL REVIEW C, vol.92, no.6, 2015 (SCI-Expanded)
- XIV. **Growth of spinodal instabilities in nuclear matter. II. Asymmetric matter**
ACAR F. P., Ayik S., YILMAZ O., GÖKALP A.
PHYSICAL REVIEW C, vol.92, no.3, 2015 (SCI-Expanded)
- XV. **Quantal description of nucleon exchange in a stochastic mean-field approach**
Ayik S., YILMAZ TÜZÜN Ö., YILMAZ B., Umar A. S., GÖKALP A., TURAN G., Lacroix D.
PHYSICAL REVIEW C, vol.91, no.5, 2015 (SCI-Expanded)
- XVI. **Growth of spinodal instabilities in nuclear matter**
YILMAZ O., Ayik S., ACAR F. P., GÖKALP A.
PHYSICAL REVIEW C, vol.91, no.1, 2015 (SCI-Expanded)
- XVII. **Nucleon exchange in heavy-ion collisions within a stochastic mean-field approach**
YILMAZ B., Ayik S., Lacroix D., YILMAZ TÜZÜN Ö.
PHYSICAL REVIEW C, vol.90, no.2, 2014 (SCI-Expanded)
- XVIII. **Investigations of spinodal dynamics in asymmetric nuclear matter within a stochastic relativistic model**
YILMAZ O., Ayik S., ACAR F. P., Saatci S., GÖKALP A.
EUROPEAN PHYSICAL JOURNAL A, vol.49, no.3, 2013 (SCI-Expanded)
- XIX. **Quantal description of instabilities in nuclear matter in a stochastic relativistic model**
YILMAZ TÜZÜN Ö., Ayik S., Gokalp A.
EUROPEAN PHYSICAL JOURNAL A, vol.47, no.10, 2011 (SCI-Expanded)
- XX. **Investigations of instabilities in nuclear matter in stochastic relativistic models**
Ayik S., YILMAZ TÜZÜN Ö., ACAR F. P., Danisman B., ER N., Gokalp A.
NUCLEAR PHYSICS A, vol.859, no.1, pp.73-86, 2011 (SCI-Expanded)
- XXI. **κ K+ $\pi(-)$ vertex in light cone QCD sum rules**
Baytemir G., SARAÇ OYMAK Y., YILMAZ O.
PHYSICAL REVIEW D, vol.81, no.9, 2010 (SCI-Expanded)
- XXII. **Spinodal instabilities in nuclear matter in a stochastic relativistic mean-field approach**
Ayik S., YILMAZ TÜZÜN Ö., Er N., Gokalp A., Ring P.
PHYSICAL REVIEW C, vol.80, no.3, 2009 (SCI-Expanded)
- XXIII. **Scalar $f(0)$ and $a(0)$ mesons in radiative $\phi \rightarrow K+K\text{-}\gamma$ decay**

- Gokalp A., Ozturk F., YILMAZ O.
PHYSICS LETTERS B, vol.671, no.3, pp.369-373, 2009 (SCI-Expanded)
- XXIV. **Quantal effects on spinodal instabilities in charge asymmetric nuclear matter**
Ayik S., Er N., YILMAZ TÜZÜN Ö., Gokalp A.
NUCLEAR PHYSICS A, vol.812, pp.44-57, 2008 (SCI-Expanded)
- XXV. **Isovector response of nuclear matter at finite temperature**
Ayik S., BOZKURT K., Gokalp A., YILMAZ TÜZÜN Ö.
ACTA PHYSICA POLONICA B, vol.39, no.6, pp.1413-1427, 2008 (SCI-Expanded)
- XXVI. **$\kappa K^*(0)\gamma$ -vertex in light cone QCD sum rules**
Gokalp A., SARAÇ OYMAK Y., YILMAZ TÜZÜN Ö.
PHYSICAL REVIEW D, vol.77, no.11, 2008 (SCI-Expanded)
- XXVII. **Scalar mesons in radiative $\phi \rightarrow (KK^0)-K^0 \gamma$ decay**
Gokalp A., Korkmaz C. S., Yilmaz O.
PHYSICAL REVIEW D, vol.75, no.1, 2007 (SCI-Expanded)
- XXVIII. **Method for numerical simulation of two-term exponentially correlated colored noise**
Yilmaz B., Ayik S., Abe Y., Gokalp A., Yilmaz O.
PHYSICAL REVIEW E, vol.73, no.4, 2006 (SCI-Expanded)
- XXIX. **Quantum statistical effects on fusion dynamics of heavy ions**
Ayik S., Yilmaz B., Gokalp A., Yilmaz O., Takigawa N.
PHYSICAL REVIEW C, vol.71, no.5, 2005 (SCI-Expanded)
- XXX. **An analysis of $f(0)$ -sigma mixing in light cone QCD sum rules**
Gokalp A., Sarac Y., Yilmaz O.
PHYSICS LETTERS B, vol.609, no.3-4, pp.291-297, 2005 (SCI-Expanded)
- XXXI. **The coupling constant $g(a_0 \pi \eta)$ as derived from light-cone QCD sum rules**
Gokalp A., Sarac Y., Yilmaz O.
MODERN PHYSICS LETTERS A, vol.19, no.40, pp.3011-3017, 2004 (SCI-Expanded)
- XXXII. **$a(0)K^+K^-$ vertex in light cone QCD sum rules**
Gokalp A., Yilmaz O.
PHYSICAL REVIEW D, vol.69, no.7, 2004 (SCI-Expanded)
- XXXIII. **Collisional effects in isovector response function of nuclear matter at finite temperature**
Ayik S., Gokalp A., Yilmaz O., Bozkurt K.
ACTA PHYSICA POLONICA B, vol.34, no.8, pp.4229-4239, 2003 (SCI-Expanded)
- XXXIV. **Vector meson dominance, chiral loops, sigma meson, and omega-rho mixing in omega - $\rightarrow \pi(0)\pi(0)\gamma$ decay**
Gokalp A., Kucukarslan A., Yilmaz O.
PHYSICAL REVIEW D, vol.67, no.7, 2003 (SCI-Expanded)
- XXXV. **Scalar sigma meson effects in radiative $\rho(0)$ -meson decays**
Gokalp A., Solmaz S., Yilmaz O.
PHYSICAL REVIEW D, vol.67, no.7, 2003 (SCI-Expanded)
- XXXVI. **The coupling constants $g(\rho \pi \gamma)$ and $g(\omega \pi \gamma)$ as derived from QCD sum rules**
Gokalp A., Yilmaz O.
EUROPEAN PHYSICAL JOURNAL C, vol.24, no.1, pp.117-120, 2002 (SCI-Expanded)
- XXXVII. **omega-meson photoproduction on nucleons in the near-threshold region**
Babacan H., Babacan T., Gokalp A., Yilmaz O.
EUROPEAN PHYSICAL JOURNAL A, vol.13, no.3, pp.355-362, 2002 (SCI-Expanded)
- XXXVIII. **A theoretical study of $\rho(0)$ -photoproduction on nucleons near threshold**
Babacan H., Babacan T., Gokalp A., Yilmaz O.
ACTA PHYSICA POLONICA B, vol.33, no.2, pp.691-706, 2002 (SCI-Expanded)
- XXXIX. **The $\phi a(0)\gamma$ - and $\phi \sigma \gamma$ -vertices in light cone QCD**
Gokalp A., Yilmaz O.
PHYSICS LETTERS B, vol.525, no.3-4, pp.273-276, 2002 (SCI-Expanded)

- XL. Scalar $\alpha(0)$ -meson contributions to radiative $\omega \rightarrow \pi(0)\eta \gamma$ and $\rho(0) \rightarrow \pi(0)\eta \gamma$ decays**
 Gokalp A., Sarac Y., Yilmaz O.
 EUROPEAN PHYSICAL JOURNAL C, vol.22, no.2, pp.327-330, 2001 (SCI-Expanded)
- XLI. Coupling constants $g_{\alpha(0)\omega\gamma}$ and $g_{\alpha(0)\rho\gamma}$ as derived from QCD sum rules**
 Gokalp A., Yilmaz O.
 EUROPEAN PHYSICAL JOURNAL C, vol.22, no.2, pp.323-326, 2001 (SCI-Expanded)
- XLII. Radiative $\rho(+)\rightarrow\pi(+)\gamma$ decay in light cone QCD**
 Gokalp A., Yilmaz O.
 ACTA PHYSICA POLONICA B, vol.32, no.10, pp.2921-2927, 2001 (SCI-Expanded)
- XLIII. Interference effects in the decay $\phi \rightarrow \pi(0)\pi(0)\gamma$ and the coupling constant $g(\phi \sigma \gamma)$**
 Gokalp A., Yilmaz O.
 PHYSICAL REVIEW D, vol.64, no.5, 2001 (SCI-Expanded)
- XLIV. Coupling constant $g(\rho \sigma \gamma)$ as derived from QCD sum rules**
 Gokalp A., Yilmaz O.
 PHYSICAL REVIEW D, vol.64, no.3, 2001 (SCI-Expanded)
- XLV. The decay $\rho(0) \rightarrow \pi(0)\pi(0)\gamma$ and the role of σ -meson**
 Gokalp A., Yilmaz O.
 PHYSICS LETTERS B, vol.508, no.1-2, pp.25-30, 2001 (SCI-Expanded)
- XLVI. Collisional damping of giant dipole resonance in Sn-120 and Pb-208**
 Gokalp A., Yilmaz O., Yildirim S., Ayik S.
 ACTA PHYSICA POLONICA B, vol.32, no.3, pp.835-839, 2001 (SCI-Expanded)
- XLVII. Collisional damping of giant monopole and quadrupole resonances**
 Yildirim S., Gokalp A., Yilmaz O., Ayik S.
 EUROPEAN PHYSICAL JOURNAL A, vol.10, no.3, pp.289-294, 2001 (SCI-Expanded)
- XLVIII. The role of σ -meson in $\omega \rightarrow \pi\pi\gamma$ decays and the coupling constant $g(\omega \sigma \gamma)$**
 Gokalp A., Yilmaz O.
 PHYSICS LETTERS B, vol.494, no.1-2, pp.69-74, 2000 (SCI-Expanded)
- XLIX. Decay $\rho(0) \rightarrow \pi(+)+\pi(-)+\gamma$ and the coupling constant $g(\rho \sigma \gamma)$**
 Gokalp A., Yilmaz O.
 PHYSICAL REVIEW D, vol.62, no.9, 2000 (SCI-Expanded)
- L. On the collisional damping of giant dipole resonance**
 Yilmaz O., Gokalp A., Yildirim S., Ayik S.
 PHYSICS LETTERS B, vol.472, no.3-4, pp.258-266, 2000 (SCI-Expanded)
- LI. Delta π N coupling constant in light cone QCD sum rules**
 Gokalp A., Yilmaz O.
 JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.25, no.12, pp.2345-2350, 1999 (SCI-Expanded)
- LII. Collisional damping of nuclear collective vibrations in a non-Markovian transport approach**
 Ayik S., Yilmaz O., Gokalp A., Schuck P.
 PHYSICAL REVIEW C, vol.58, no.3, pp.1594-1603, 1998 (SCI-Expanded)
- LIII. PARITY VIOLATION IN HEAVY-NUCLEI IN A RELATIVISTIC HARTREE-FOCK APPROXIMATION**
 HOROWITZ C., YILMAZ O.
 PHYSICAL REVIEW C, vol.49, no.6, pp.3042-3049, 1994 (SCI-Expanded)
- LIV. RARE B-MESON DECAYS IN SUPERSYMMETRY**
 ALIEV T., TURAN G., YILMAZ O.
 NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA A-NUCLEI PARTICLES AND FIELDS, vol.106, no.8, pp.1059-1069, 1993 (SCI-Expanded)
- LV. LOOKING FOR E6 MODEL MANIFESTATIONS IN TAU-DECAYS**
 ALIEV T., SULTANSOY S., YILMAZ O.

- PHYSICAL REVIEW D, vol.47, no.7, pp.2879-2881, 1993 (SCI-Expanded)
- LVI. **TAU-MU-E NONUNIVERSALITY AS INDICATION OF ORDINARY AND EXOTIC LEPTON MIXING**
ALIEV T., SULTANSOY S., YILMAZ O.
PHYSICS LETTERS B, vol.291, no.1-2, pp.106-108, 1992 (SCI-Expanded)
- LVII. **PROPERTIES OF BC-MESON IN QCD SUM-RULES**
ALIEV T., YILMAZ O.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA A-NUCLEI PARTICLES AND FIELDS, vol.105, no.6, pp.827-833, 1992 (SCI-Expanded)
- LVIII. **CORE POLARIZATION EFFECTS ON THE MAGNETIC FORM-FACTORS OF N-15 AND O-17**
GOKALP A., YILMAZ O.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA A-NUCLEI PARTICLES AND FIELDS, vol.105, no.5, pp.695-702, 1992 (SCI-Expanded)
- LIX. **4TH GENERATION AND SUSY EFFECTS ON CP VIOLATION IN RARE B-]K-PHI, KSTAR-PHI TRANSITIONS**
ALIEV T., YILMAZ O.
PHYSICS LETTERS B, vol.257, no.1-2, pp.92-98, 1991 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Quantal Diffusion in Heavy-Ion Collisions**
YILMAZ O., YILMAZ B.
XI. International Conference on Nuclear Structure Properties, Trabzon, Turkey, 12 - 14 October 2018, pp.195-200
- II. **Nucleon diffusion in heavy ion collisions**
SAATCI S., YILMAZ O., YILMAZ B., AYIK S.
NUFRA2015 Fifth International Conference on Nuclear Fragmentation, Antalya, Turkey, 4 - 11 October 2015
- III. **Beyond mean field approach to nucleon exchange in deep inelastic heavy ion collisions**
YILMAZ B., YILMAZ O., AYIK S., LACROIX D.
NUFRA2015 Fifth International Conference on Nuclear Fragmentation, Antalya, Turkey, 4 - 11 October 2015
- IV. **Spinodal instabilities in asymmetric nuclear matter**
ÇAKIRÇA F., YILMAZ O., AYIK S.
COMEX5 Collective Motion in Nuclei under Extreme Conditions, Krakow, Poland, 14 - 18 September 2015
- V. **Nucleon exchange in heavy ion collisions**
YILMAZ O.
VIII. International Workshop on Nuclear Structure Properties, Sakarya, Turkey, 7 - 10 September 2015
- VI. **Spinodal instabilities and properties of unstable modes in asymmetric nuclear matter**
SAATCI S., ÇAKIRÇA F., YILMAZ O., AYIK S., GÖKALP A.
Euroscool on Exotic Beams, 30 August - 05 September 2015
- VII. **Collisional damping of giant dipole resonance in Sn 120 and Pb 208**
GÖKALP A., YILMAZ O., YILDIRIM S., AYIK S.
XXXVth Zakopane School of Physics on Trends in Nuclear Physics, Krakow, Poland, 5 - 13 September 2000, vol.32, pp.835

Supported Projects

Yılmaz O., Yılmaz B., Turan G., TUBITAK Project, Derin Elastik-Olmayan ve Yarı-fizyon Reaksiyonlarında Nükleon Difüzyon Mekanizmasının Kuantal Olarak İncelenmesi, 2017 - 2019

YILMAZ O., TUBITAK Project, Simetrik ve Asimetrik Nükleer Sistemlerde Spinodal Dinamiğinin Relativistik Transport Modeli Çerçevesinde İncelenmesi II, 2010 - 2012

YILMAZ O., TUBITAK Project, Simetrik ve antisimetrik nükleer sistemlerde spinodal dinamiğinin transport modeli

çerçevesinde incelenmesi, 2008 - 2009

YILMAZ O., TUBITAK Project, Hafif Skaler Mezonların Yapıları ve Hadron Reaksiyonlarındaki Rollerini, 2007 - 2008

Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ege University, Turkey, December 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Agri Ibrahim Cecen University, Turkey, December 2022

TUBITAK Project, 1002 - Quick Support Program, Erciyes University, Turkey, November 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Istanbul Technical University, Turkey, June 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Istanbul Technical University, Turkey, June 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Agri Ibrahim Cecen University, Turkey, June 2022

Metrics

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H-Index (Scopus): 14

Non Academic Experience

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YÜZÜNCÜ YIL ÜNİVERSİTESİ