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### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji ve Malzeme Mühendisliği Anabilim Dalı, Türkiye 2017 - 2021

Yüksek Lisans, Kahramanmaraş Sütçü İmam Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2013 - 2016

Lisans, Hatay Mustafa Kemal Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 2008 - 2012

### Yaptığı Tezler

Doktora, Biyomedikal uygulamalar için mikroakışkan yöntemiyle mikrobaloncuk ve partikül üretimi, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji ve Malzeme Mühendisliği Anabilim Dalı, 2021

Yüksek Lisans, Metal-lignoselülozik esaslı kompozit malzeme üretimi, Kahramanmaraş Sütçü İmam Üniversitesi, Fen Bilimleri Enstitüsü, 2016

### Araştırma Alanları

Eczacılık Teknolojisi, Biyomalzemeler, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Marmara Üniversitesi, Teknoloji Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2023 - Devam Ediyor

### Verdiği Dersler

Akışkanlar Mekaniği, Lisans, 2023 - 2024

Biyomalzemelerin Karakterizasyonu, Doktora, 2023 - 2024

Mikro, nano İlaç Taşıyıcı Sistemler, Doktora, 2023 - 2024

Diferansiyel Denklemler, Lisans, 2023 - 2024

Metalurjik Atıklar ve Yeniden Kazanım, Lisans, 2023 - 2024

Matematik II, Lisans, 2022 - 2023

Rapor Hazırlama ve Sunum Teknikleri, Lisans, 2021 - 2022

Kimya, Lisans, 2022 - 2023

## Yönetilen Tezler

- Cesur S., Kemik Doku Mühendisliği için 3 Boyutlu Yazım Teknolojisi Kullanılarak PRP Yüklü İskelelerin Üretimi, Yüksek Lisans, T.Arslan(Öğrenci), Devam Ediyor
- Cesur S., Kartal İ., Kemik Doku Mühendislik Uygulamaları İçin Elektroegirme Yöntemi ile Üretilmiş Antifungal Özelliklere Sahip Nanofiberlerin Üretimi, Doktora, Y.Yavuz(Öğrenci), Devam Ediyor
- Cesur S., Elektroegirme Yöntemi ile Kanser Tedavisine Yönelik Inula helenium ekstraktı ve Amigdalın Yüklü Nanofiberlerin Üretimi, Yüksek Lisans, R.Betül(Öğrenci), Devam Ediyor
- Cesur S., Demire H., GÖZ YUVARLAĞI KÜÇÜKLÜĞÜNE BAĞLI OLARAK GELİŞEN GÖZ KAPAĞI DÜŞÜKLÜĞÜNÜN TEDAVİSİNDE KULLANILMAK ÜZERE KİŞİYE ÖZEL GÖZ KAPAĞI KALDIRICI (SCLERAL EYELID LIFTER) TASARIM, ÜRETİM VE KARAKTERİZASYONU, Doktora, A.ALPARSLAN(Öğrenci), Devam Ediyor
- Cesur S., Gündüz O., TRANSDERMAL İLAÇ DAĞITIMI İÇİN MİKROPARTİKÜL KAPLI MİKROPİĞNE İSKELELERİNİN ÜRETİMİ VE KARAKTERİZASYONU, Yüksek Lisans, E.PİLAVCI(Öğrenci), 2023
- Gündüz O., Cesur S., ELEKTROEĞİRME YÖNTEMİ İLE İLAÇ YÜKLÜ YARA ÖRTÜLERİNİN ÜRETİLMESİ VE KARAKTERİZASYONU, Yüksek Lisans, E.ALTAN(Öğrenci), 2023
- Cesur S., Üstündağ C. B., Kronik yaralar için 3B basılmış kontrollü ilaç salım sisteminin tasarımı ve geliştirilmesi, Yüksek Lisans, S.HARMANCI(Öğrenci), 2022

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Whey protein-loaded 3D-printed poly (lactic) acid scaffolds for wound dressing applications.**  
Kayadurmus H. M., Rezaei A., Ilhan E., Cesur S., Sahin A., Gunduz O., Kalaskar D. M., Ekren N.  
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- II. **Combination techniques towards novel drug delivery systems manufacturing: 3D PCL scaffolds enriched with tetracycline-loaded PVP nanoparticles**  
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- III. **Design of Cinnamaldehyde- and Gentamicin-Loaded Double-Layer Corneal Nanofiber Patches with Antibiofilm and Antimicrobial Effects**  
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- IV. **Investigation of the antitumor effect on breast cancer cells of the electrospun amygdalin-loaded poly(L-lactic acid)/poly(ethylene glycol) nanofibers**  
Seyhan S., Alkaya D., Cesur S., Sahin A.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.239, 2023 (SCI-Expanded)
- V. **A Novel Strategy as a Potential Rapid Therapy Modality in the Treatment of Corneal Ulcers: Fluconazole/Vancomycin Dual Drug-Loaded Nanofibrous Patches**  
CESUR S., Ilhan E., Pilavci E., Sulutas R. B., Gurboga M., BİNGÖL ÖZAKPINAR Ö., Kaya E., Heljak M., TINAZ G., OKTAR F. N., et al.  
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- VI. **Controlled Release of Gentamicin from Electrospun Poly(Vinyl Alcohol)/Gelatin Nanofibers: The Effect of Crosslinking Time Using Glutaraldehyde Vapor**  
Baykara D., Pilavci E., Cesur S., Ilhan E., ULAĞ S., ŞENGÖR M., Kijeńska-Gawrońska E., GÜNDÜZ O.  
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- VII. **Production of 3D Printed Bi-Layer and Tri-Layer Sandwich Scaffolds with Polycaprolactone and Poly (vinyl alcohol)-Metformin towards Diabetic Wound Healing**  
Harmanci S., Dutta A., Cesur S., Sahin A., Gunduz O., Kalaskar D. M., Ustundag C. B.  
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- VIII. **Gentamicin-loaded polyvinyl alcohol/whey protein isolate/hydroxyapatite 3D composite scaffolds**

**with drug delivery capability for bone tissue engineering applications**

Tut T. A., Cesur S., Ilhan E., ŞAHİN A., Yildirim O. S., GÜNDÜZ O.

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- IX. **Preparation and characterization of pure natural hydroxyapatite derived from seashells for controlled drug delivery**  
AYAZ SEYHAN S., Alkaya D., Cesur S., OKTAR F. N., GÜNDÜZ O.  
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- X. **The Role of Multilayer Electrospun Poly(Vinyl Alcohol)/Gelatin nanofibers loaded with Fluconazole and Cinnamaldehyde in the Potential Treatment of Fungal Keratitis**  
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- XI. **Characterization and in vitro release kinetics of chitosan based biocomposites from Scotch Bonnets**  
BİLĞİÇ ALKAYA D., Cesur S., AYAZ SEYHAN S.  
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- XII. **Metformin-Loaded Polymer-Based Microbubbles/Nanoparticles Generated for the Treatment of Type 2 Diabetes Mellitus**  
Cesur S., ÇAM M. E., Sayln F. S., Su S., Harker A., Edirisinghe M., GÜNDÜZ O.  
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- XIII. **Electrically controlled drug release of donepezil and BiFeO<sub>3</sub> magnetic nanoparticle-loaded PVA microbubbles/nanoparticles for the treatment of Alzheimer's disease**  
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- XIV. **Levodopa-Loaded 3D-Printed Poly (Lactic) Acid/Chitosan Neural Tissue Scaffold as a Promising Drug Delivery System for the Treatment of Parkinson's Disease**  
Saylam E., Akkaya Y., Ilhan E., Cesur S., Guler E., ŞAHİN A., Cam M. E., EKREN N., OKTAR F. N., GÜNDÜZ O., et al.  
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- XV. **Resveratrol-Loaded Levan Nanoparticles Produced by Electrohydrodynamic Atomization Technique**  
Cinan E., Cesur S., Haskoylu M. E., GÜNDÜZ O., Oner E.  
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- XVI. **Production, Optimization and Characterization of Polylactic Acid Microparticles Using Electrospray with Porous Structure**  
Tasci M. E., Dede B., Tabak E., Gur A., Sulutas R. B., Cesur S., Ilhan E., Lin C., Paik P., Fici D., et al.  
APPLIED SCIENCES-BASEL, cilt.11, sa.11, 2021 (SCI-Expanded)
- XVII. **Accelerated diabetic wound healing by topical application of combination oral antidiabetic agents-loaded nanofibrous scaffolds: An in vitro and in vivo evaluation study**  
Cam M. E., ERTAŞ B., Alenezi H., Hazar-Yavuz A. N., Cesur S., Ozcan G. S., Ekentok C., Guler E., Katsakouli C., Demirbas Z., et al.  
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- XVIII. **3D Propolis-Sodium Alginate Scaffolds: Influence on Structural Parameters, Release Mechanisms, Cell Cytotoxicity and Antibacterial Activity**  
Aranci K., Uzun M., Su S., Cesur S., Ulag S., Amin A., Guncu M., Aksu B., Kolayli S., Ustundag C., et al.  
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- XIX. **Development of Satureja cuneifolia-loaded sodium alginate/polyethylene glycol scaffolds produced by 3D-printing technology as a diabetic wound dressing material**  
Ilhan E., Cesur S., Guler E., Topal F., Albayrak D., Guncu M. M., Cam M. E., Taskin T., Sasmazel H. T., Aksu B., et al.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.161, ss.1040-1054, 2020 (SCI-Expanded)
- XX. **A novel treatment strategy for preterm birth: Intra-vaginal progesterone-loaded fibrous patches**  
Cam M. E., Hazar-Yavuz A. N., Cesur S., Ozkan O., Alenezi H., Turkoglu Sasmazel H., Sayip Eroglu M., Brako F., Ahmed J., Kabasakal L., et al.

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- XXI. **Production and characterization of elastomeric cardiac tissue-like patches for Myocardial Tissue Engineering**  
Cesur S., Ulag S., Ozak L., Gumussoy A., Arslan S., Yilmaz B. K., Ekren N., Agirbasli M., Kalaskar D. M., Gündüz O.  
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- XXII. **Preparation and characterization of electrospun polylactic acid/sodium alginate/orange oyster shell composite nanofiber for biomedical application**  
Cesur S., Oktar F. N., Ekren N., Kılıç O., Bilgiç Alkaya D., Ayaz Seyhan S., Ege Z. R., Lin C., Erdem Kuruca S., Erdemir G., et al.  
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- XXIII. **Evaluation of burst release and sustained release of pioglitazone-loaded fibrous mats on diabetic wound healing: an in vitro and in vivo comparison study**  
Cam M. E., Yildiz S., Alenezi H., Cesur S., Ozcan G., Erdemir G., Edirisinghe U., Akakin D., Kuruca D., Kabasakal L., et al.  
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- XXIV. **Fabrication, characterization and fibroblast proliferative activity of electrospun Achillea lycaonica-loaded nanofibrous mats**  
Çam M. E., Cesur S., Taşkın T., Erdemir G., Kuruca D. S., Sahin Y. M., Kabasakal L., Gündüz O.  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Production, characterization, and antioxidant activity evaluation of Rheum Ribes L. extract-loaded PLA/PEG nanofibers**  
AYAZ SEYHAN S., Demirel A. B., Cesur S., BİLGİÇ ALKAYA D.  
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- II. **GENTAMİSİN YÜKLÜ POLİ(VİNİL ALKOL)/JELATİN NANOFİBERLERİN ELEKTROEĞİRME YÖNTEMİYLE YARA ÖRTÜSÜ MALZEMESİ OLARAK ÜRETİLMESİ**  
CESUR S.  
Konya mühendislik bilimleri dergisi (Online), cilt.10, sa.4, ss.878-888, 2022 (Hakemli Dergi)
- III. **Elektroeğirme Yöntemi ile Antitüberkülostatik İlaç Yüklü Nanofiber Üretimi ve Karakterizasyonu**  
ONURLU H. İ., BİLGİÇ ALKAYA D., AYAZ SEYHAN S., CESUR S., GÜNDÜZ O.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, cilt.22, sa.3, ss.654-661, 2022 (Hakemli Dergi)
- IV. **MİKROAKIŞKAN CİHAZ KULLANARAK POLİMERİK MİKROBALONCUK/NANOPARTİKÜLLERİN ÜRETİM VE KARAKTERİZASYONU**  
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- V. **Controlled release of metformin-loaded sa/peg scaffolds produced by 3D-printing technology**  
Cesur S.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, cilt.39, sa.1, ss.1-12, 2021 (ESCI)

## **Kitap & Kitap Bölümleri**

- I. **Advances in 3D Hydrogel Matrix and Their Role in Neural Tissue Engineering**  
Cesur S., Bedir T., Ekren N., Gündüz O., Üstündağ C. B.  
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- II. **Microfluidic systems for neural tissue engineering**  
Cesur S., Ulağ S., Gündüz O.  
Biomaterials for Neural Tissue Engineering, Oguzhan Gunduz, Cem Bulent Ustundag and Mustafa Sengor, Editör,

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**III. Characterization of scaffolds for neural tissue engineering**

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**IV. Gel-Inks for 3D Printing in Corneal Tissue Engineering**

Cesur S.

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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

**I. Nöral Doku Mühendisliđi Uygulamalarında Kullanılabilecek Doku İskelelerinin Üretimi**

Ergün T., Baykara D., Cesur S., Üstündađ C. B., Nalbantođlu B.

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**II. Production of Vancomycin-Loaded Polylactic acid (PLA)/Polycaprolactone (PCL) Electrospun Nanofibers with Different Designs**

Altan E., Akdag Z., Pilavci E., Cesur S., Gündüz O.

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**III. Donezepil for The Treatment of Alzheimer's Disease-Loaded with Curcumin Production of Sandwich-Like 3D PCL/PVA Tissue Scaffolds**

Ekici T., Bilgiç Alkaya D., Ayaz Seyhan S., Cesur S., Gündüz O.

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**IV. Production of Nanofiber for Combination with Anticancer Tragopon Porrifolius L. Naringenin**

Yeşil E., Ayaz Seyhan S., Bilgiç Alkaya D., Cesur S., Gündüz O.

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**V. Inula helenium Extract-Loaded Nanofibrous Patches for the Treatment of Cancer**

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**VI. Development of Electrospun Nanofibers Containing Gentamicin and Cinnamaldehyde for Treating Corneal Infections**

Tut T. A., Cesur S., Ilhan E., Gawrońska E. K., Gündüz O.

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**VII. Production and Characterization of a Dual Drug Delivery System of Memantine and Naringenin by Electrospinning Method**

Birinci A., Ayaz Seyhan S., Bilgiç Alkaya D., Cesur S., Gündüz O.

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**VIII. Microparticle-Coated Microneedle Scaffolds for Transdermal Drug Delivery**

Pilavci E., Cesur S., Gündüz O.

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**IX. Fabrication and Characterization of Naringenin-loaded Poly(Lactic Acid) (PLA) Nanofibrous Scaffolds**

Erdađ Z., Yeşil E., Bilgiç Alkaya D., Ayaz Seyhan S., Cesur S., Gündüz O.

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- X. **Production and Characterization of Drug-Loaded Tissue Healing Fiber Dressing for Corneal Ulcer Treatment**  
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- XI. **Development of Janus Microbubbles with Varied Morphologies by the Effect of Different Solvents**  
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- XII. **Keratin Loaded PVA/Silk Fibroin Electrospun Nanofibers for Wound Dressing Applications**  
Tut T. A., Cesur S., Gündüz O.  
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- XIII. **Fabrication and characterization of electrospun ellagic acid-loaded Poly (lactic acid)-polyethylene glycol nanofibers for biomedical application**  
Yaşar K., Yamlı R., Bilgiç Alkaya D., Ayaz Seyhan S., Cesur S., Gündüz O.  
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- XIV. **Multilayer patches for the treatment of corneal perforations caused by infections**  
Kijeńska-Gawrońska , İlhan E., Cesur S., Sulutaş R. B., Pilavcı E., Dalbayrak B., Kaya E., Arısan E. D., Tınaz G., Şengör M., et al.  
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- XV. **Production Of Metformin-Loaded Electrospun Fiber Using Electrospinning For Diabetic Wound Healing**  
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- XVI. **The Effect of Crosslinking Time on the Release of Gentamicin from Nanofibers**  
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- XVII. **Three-Dimensional Polycaprolactone Scaffold Combined with Tetracycline-Loaded Electropray Particles**  
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- XVIII. **Fluconazole and Cinnamaldehyde Loaded-Multilayer Elektrospun Nanofibers for the Treatment of Fungal Keratitis**  
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- XIX. **Synthesis of Medicinal Plant Based Bioactive Electrospun Nanofibrous Mats and Their Effect on The Antioxidant Activity**  
Demirel A. B., Ayaz Seyhan S., Bilgiç Alkaya D., Cesur S., Gündüz O.  
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- XX. **Design and Characterization of Medicinal Plant Based Nanofibers and Their Effect on The Antioxidant Activity**  
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- XXI. **Design and Fabrication of Metformin-Loaded Tri-Layer PCL/PVA/PCL Scaffolds for Chronic Wound Healing**  
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- XXII. **Production and Characterisation of PVA/Whey Protein/Hydroxyapatite/Gentamicin Loaded Scaffolds for Bone Tissue Engineering Applications**  
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- XXIII. **Characterization and Application of Silver Nanoparticles Decorated Electrospun Nanofiber Loaded with Naringenin**  
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- XXIV. **Development of Oral Antidiabetic Agent-Loaded Scaffolds for Diabetic Wound Healing Using 3D Printing Technology**  
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- XXV. **Controlled Release of Amygdalin Loaded PLA/PEG Nanofiber by Electrospinning Method**  
Ayaz Seyhan S., Bilgiç Alkaya D., Cesur S., Gündüz O.  
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- XXVI. **Fabrication and Characterization of Carbamazepine Loaded Poly(lactic acid) (PLA) Nanofibrous Scaffolds**  
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- XXVII. **Synthesis and Characterization of Electrospun Nanofibers Loaded with Black Tea/ Tyhme Plant Extracts as a Antimicrobial Wound Dressing**  
Gür A., Cesur S., Sevimoğlu T., Gündüz O.  
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## **Desteklenen Projeler**

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## **Bilimsel Hakemlikler**

GELS, SCI Kapsamındaki Dergi, Kasım 2022

INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, SCI Kapsamındaki Dergi, Eylül 2022

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## **Metrikler**

Yayın: 77

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Doktora sonrası araştırmacı, TÜBİTAK, 2021 - 2023

## **Ödüller**

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