

Prof. SEVDA ŐENEL

Personal Information

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Education Information

Doctorate, Hacettepe Üniversitesi, Eczacılık Fakóltesi, Farmasötik Teknoloji, Turkey 1985 - 1989

Postgraduate, Hacettepe Üniversitesi, Eczacılık Fakóltesi, Farmasötik Teknoloji, Turkey 1981 - 1984

Undergraduate, Ankara Üniversitesi, Eczacılık Fakóltesi, Turkey 1976 - 1980

Foreign Languages

English, C1 Advanced

German, B2 Upper Intermediate

French, B2 Upper Intermediate

Dissertations

Doctorate, Sürekli salınma sađlayan potasyum klorür tabletlerinin formölasyonu ve in vitro-in vivo deđerlendirilmesi, Hacettepe Üniversitesi, Eczacılık Fakóltesi, Eczacılık Teknolojisi Bölümü, 1989

Research Areas

Health Sciences, Pharmacology and Therapeutics, Pharmaceutics Technology, Pharmaceutical Technology

Academic Titles / Tasks

Professor, Hacettepe University, Eczacılık Fakóltesi, Eczacılık Teknolojisi Bölümü, 2002 - Continues

Academic and Administrative Experience

Hacettepe Üniversitesi, Rektörlük, 2002 - 2012

Hacettepe Üniversitesi, Eczacılık Fakóltesi, Eczacılık Teknolojisi Bölümü, 2003 - 2006

Advising Theses

ŐENEL S., Doku mühendisliđi için kitosan içeren doku iskelesi geliřtirilmesi: Formölasyon ve in vitro deđerlendirmeler, Postgraduate, S.BURÇİN(Student), 2012

ŐENEL S., HIV enfeksiyonlarında görölen oral lezyonların tedavisi için girişimsel olmayan ilaç taşıyıcı sistemlerin geliřtirilmesi, Postgraduate, Z.GÖLŐEN(Student), 2011

ŐENEL S., Development and in vitro characterization of vaccine delivery systems for mucosal immunization against

bovine Herpes Virus Type 1 (BHV-1) infections, Postgraduate, M.GÜNBEYAZ(Student), 2010
ŞENEL S., Development of non-invasive vaccine carriers, Doctorate, B.SAYIN(Student), 2007
ŞENEL S., Oral mukozit tedavisinde kullanılacak etkin bir oklüzif mukoadesif sistemin geliştirilmesi ve değerlendirilmesi, Postgraduate, P.AKSUNGUR(Student), 2003

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

- I. **An Overview of Physical, Microbiological and Immune Barriers of Oral Mucosa**
ŞENEL S.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.22, no.15, 2021 (Journal Indexed in SCI)
- II. **Current status and future of delivery systems for prevention and treatment of infections in the oral cavity**
ŞENEL S., Ozdogan A. I. , AKCA G.
DRUG DELIVERY AND TRANSLATIONAL RESEARCH, 2021 (Journal Indexed in SCI)
- III. **Development and in vitro evaluation of gel formulation of atorvastatin solid dispersions**
Ozdogan A. I. , AKCA G., ŞENEL S.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.61, 2021 (Journal Indexed in SCI)
- IV. **An Overview on Chitosan-Based Adjuvant/ Vaccine Delivery Systems**
PARMAKSIZ S., ŞENEL S.
CHITOSAN FOR BIOMATERIALS IV: BIOMEDICAL APPLICATIONS, vol.288, pp.293-379, 2021 (Journal Indexed in SCI)
- V. **Mucoadhesive bilayered buccal platform for antifungal drug delivery into the oral cavity**
Uzunoglu B., Wilson C. G. , SAĞIROĞLU M., YÜKSEL S., ŞENEL S.
DRUG DELIVERY AND TRANSLATIONAL RESEARCH, 2020 (Journal Indexed in SCI)
- VI. **Chitosan-based particulate systems for drug and vaccine delivery in the treatment and prevention of neglected tropical diseases**
ŞENEL S., YÜKSEL S.
DRUG DELIVERY AND TRANSLATIONAL RESEARCH, 2020 (Journal Indexed in SCI)
- VII. **Development and in vitro evaluation of a new adjuvant system containing Salmonella Typhi porins and chitosan**
YÜKSEL S., PEKCAN M., PURALI N., ESENDAĞLI G., Tavukcuoglu E., Rivero-Arredondo V., Ontiveros-Padilla L., Lopez-Macias C., ŞENEL S.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.578, 2020 (Journal Indexed in SCI)
- VIII. **Current status and future of chitosan in drug and vaccine delivery**
ŞENEL S.
Reactive and Functional Polymers, vol.147, 2020 (Journal Indexed in SCI)
- IX. **Localized drug delivery with mono and bilayered mucoadhesive films and wafers for oral mucosal infections**
TİMUR S. S. , Yüksel S., Akca G., ŞENEL S.
International Journal of Pharmaceutics, vol.559, pp.102-112, 2019 (Journal Indexed in SCI)
- X. **Development and in vitro evaluation of chitosan based system for local delivery of atorvastatin for treatment of periodontitis**
Işılav Özdoğan A., AKCA G., ŞENEL S.
European Journal of Pharmaceutical Sciences, vol.124, pp.208-216, 2018 (Journal Indexed in SCI)
- XI. **In vivo evaluation of chitosan based local delivery systems for atorvastatin in treatment of periodontitis.**
Özdoğan A., İlarıslan Y., Kösemehmetođlu K., Akca G., Kutlu H., Comerđov E., Iskit A. B. , Şenel S.
International journal of pharmaceutics, vol.550, pp.470-476, 2018 (Journal Indexed in SCI Expanded)
- XII. **Comparison of different types and sources of chitosan for the treatment of infections in the oral cavity**

- AKCA G., Özdemir A., Öner Z. G. , ŞENEL S.
Research on Chemical Intermediates, vol.44, no.8, pp.4811-4825, 2018 (Journal Indexed in SCI)
- XIII. **Network on veterinary medicines initiated by the European Federation For Pharmaceutical Sciences**
Mochel J. P. , Tyden E., Hellmann K., Vendrig J. C. , ŞENEL S., Dencker L., Cristina R. T. , Linden H., Schmerold I.
JOURNAL OF VETERINARY PHARMACOLOGY AND THERAPEUTICS, vol.41, no.3, pp.378-383, 2018 (Journal Indexed in SCI)
- XIV. **Orally disintegrating tablets, fast-dissolving, buccal and sublingual formulations**
ŞENEL S., Comoglu T.
Pharmaceutical Development and Technology, vol.23, no.5, pp.431, 2018 (Journal Indexed in SCI)
- XV. **Moxifloxacin Loaded Chitosan Gel Formulations for the Treatment of Periodontal Diseases**
AZERAN N., NTB Z., DOĞAN S. S. , DOĞAN A., EKİZOĞLU M., RAVI S., KEMAL D., SAHU P., ŞENEL S.
Journal Of Polymer Materials, 2017 (Journal Indexed in SCI Expanded)
- XVI. **Moxifloxacin loaded chitosan gel formulations for the treatment of periodontal diseases**
Bintiazeran N. S. , Diyanabintizazali N., Sedatimur S. S. , Özdoğan A. L. , EKİZOĞLU M., Sheshala R., Dua K., Sahu P. S. , ŞENEL S.
Journal of Polymer Materials, vol.34, no.1, pp.157-169, 2017 (Journal Indexed in SCI)
- XVII. **Position Paper: EUFEPS Network on Veterinary Medicines Initiative: An interdisciplinary forum to support Veterinary Pharmacology and promote the development of new pharmaceuticals for Animal Health**
Dencker L., Hellmann K., Mochel J., ŞENEL S., Tyden E., vendrig J., Lİnden H., schmerold I.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.91, 2016 (Journal Indexed in SCI)
- XVIII. **Oral Mucosa for Delivery of Drugs, Allergens and Vaccines: Where are we Now?**
ŞENEL S.
CURRENT DRUG DELIVERY, vol.13, no.2, pp.172-174, 2016 (Journal Indexed in SCI)
- XIX. **Oral Mucosal Drug Delivery and Therapy Preface**
Rathbone M. J. , ŞENEL S., Pather I.
ORAL MUCOSAL DRUG DELIVERY AND THERAPY, 2015 (Journal Indexed in SCI)
- XX. **Overview of Oral Mucosal Delivery**
Rathbone M. J. , Pather I., ŞENEL S.
ORAL MUCOSAL DRUG DELIVERY AND THERAPY, pp.17-29, 2015 (Journal Indexed in SCI)
- XXI. **Design and Development of Systemic Oral Mucosal Drug Delivery Systems**
Rathbone M. J. , ŞENEL S., Pather I.
ORAL MUCOSAL DRUG DELIVERY AND THERAPY, pp.149-167, 2015 (Journal Indexed in SCI)
- XXII. **Chitosan-based systems for intranasal immunization against foot-and-mouth disease**
ÇOKÇALIŞKAN C., ÖZYÖRÜK F., GÜRSOY R. N. , ALKAN M., GÜNBEYAZ M., Arca H. C. , UZUNLU E., ŞENEL S.
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.19, no.2, pp.181-188, 2014 (Journal Indexed in SCI)
- XXIII. **Characterization of Protein and Peptide Binding to Nanogels Formed by Differently Charged Chitosan Derivatives**
Zubareva A., Ilyina A., Prokhorov A., Kurek D., Efremov M., Varlamov V., ŞENEL S., Ignatyev P., Svirshchevskaya E.
MOLECULES, vol.18, no.7, pp.7848-7864, 2013 (Journal Indexed in SCI)
- XXIV. **Developing and advancing dry powder inhalation towards enhanced therapeutics**
Stegemann S., Kopp S., Borchard G., Shah V. P. , ŞENEL S., Dubey R., Urbanetz N., Cittero M., Schoubben A., Hippchen C., et al.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.48, pp.181-194, 2013 (Journal Indexed in SCI)
- XXV. **Two percent chitosan mouthwash: A microbiological and clinical comparative study**
URAZ A., Boynuegri D., ÖZCAN G., Karaduman B., Uc D., ŞENEL S., Pehlivan S., ÖĞÜŞ E., Sultan N.
JOURNAL OF DENTAL SCIENCES, vol.7, no.4, pp.342-349, 2012 (Journal Indexed in SCI)
- XXVI. **Recent developments in buccal and sublingual delivery systems**
ŞENEL S., Rathbone M. J. , Cansiz M., Pather I.
EXPERT OPINION ON DRUG DELIVERY, vol.9, no.6, pp.615-628, 2012 (Journal Indexed in SCI)
- XXVII. **Fundamentals of Vaccine Delivery in Infectious Diseases**

- ŞENEL S.
FUNDAMENTALS AND APPLICATIONS OF CONTROLLED RELEASE DRUG DELIVERY, pp.517-532, 2012 (Journal Indexed in SCI)
- XXVIII. **Chitosan-Based Particulate Systems for Non-Invasive Vaccine Delivery**
ŞENEL S.
CHITOSAN FOR BIOMATERIALS I, vol.243, pp.111-137, 2011 (Journal Indexed in SCI)
- XXIX. **Chitosan based delivery systems for mucosal immunization against bovine herpesvirus 1 (BHV-1)**
Gunbeyaz M., Faraji A., Ozkul A., PURALI N., ŞENEL S.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.41, pp.531-545, 2010 (Journal Indexed in SCI)
- XXX. **Effects of Platelet-Rich Plasma and Chitosan Combination on Bone Regeneration in Experimental Rabbit Cranial Defects**
Oktay E. O. , Demiralp B., Demiralp B., ŞENEL S., AKMAN A. C. , Eratalay K., Akincibay H.
JOURNAL OF ORAL IMPLANTOLOGY, vol.36, no.3, pp.175-184, 2010 (Journal Indexed in SCI)
- XXXI. **Potential applications of chitosan in oral mucosal delivery**
Senel S.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.20, no.1, pp.23-32, 2010 (Journal Indexed in SCI)
- XXXII. **TMC-MCC (N-trimethyl chitosan-mono-N-carboxymethyl chitosan) nanocomplexes for mucosal delivery of vaccines**
Sayin B., Somavarapu S., Li X. W. , Sesardic D., ŞENEL S., Alpar O. H.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.38, no.4, pp.362-369, 2009 (Journal Indexed in SCI)
- XXXIII. **PREPARATION OF A CHITOSAN-BASED FORMULATION FOR THE TREATMENT OF ORAL MUCOSAL DISORDERS**
Ozdemir A., AKCA G., Oner Z. G. , Gunbeyaz M., ŞENEL S.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.38, no.1, pp.106-108, 2009 (Journal Indexed in SCI)
- XXXIV. **Chitosan-based systems for the delivery of vaccine antigens**
Arca H. C. , Guenbeyaz M., ŞENEL S.
EXPERT REVIEW OF VACCINES, vol.8, no.7, pp.937-953, 2009 (Journal Indexed in SCI)
- XXXV. **Clinical and Radiographic Evaluations of Chitosan Gel in Periodontal Intraosseous Defects: A Pilot Study**
Boynuegri D., ÖZCAN G., ŞENEL S., Uc D., URAZ A., ÖĞÜŞ E., Cakilci B., Karaduman B.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, no.1, pp.461-466, 2009 (Journal Indexed in SCI)
- XXXVI. **Mono-N-carboxymethyl chitosan (MCC) and N-trimethyl chitosan (TMC) nanoparticles for non-invasive vaccine delivery**
Sayin B., Somavarapu S., Li X. W. , Thanou M., Sesardic D., Alpar H. O. , ŞENEL S.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.363, pp.139-148, 2008 (Journal Indexed in SCI)
- XXXVII. **Current status and the future of buccal drug delivery systems**
Pather S. I. , Rathbone M. J. , ŞENEL S.
EXPERT OPINION ON DRUG DELIVERY, vol.5, no.5, pp.531-542, 2008 (Journal Indexed in SCI)
- XXXVIII. **Application of chitosan gel in the treatment of chronic periodontitis**
Akincibay H., ŞENEL S., YETKİN AY Z.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, no.2, pp.290-296, 2007 (Journal Indexed in SCI)
- XXXIX. **Development and in vitro/in vivo evaluations of bioadhesive buccal tablets for nicotine replacement therapy**
Ikinci G., ŞENEL S., Tokgozoglu L., Wilson C., Sumnu M.
PHARMAZIE, vol.61, no.3, pp.203-207, 2006 (Journal Indexed in SCI)
- XL. **Potential applications of chitosan in veterinary medicine**
Senel S., McClure S.
ADVANCED DRUG DELIVERY REVIEWS, vol.56, no.10, pp.1467-1480, 2004 (Journal Indexed in SCI)
- XLI. **Development of a buccal bioadhesive nicotine tablet formulation for smoking cessation**

- Ikinci G., ŞENEL S., Wilson C., Sumnu M.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.277, pp.173-178, 2004 (Journal Indexed in SCI)
- XLII. **Chitosan supports the initial attachment and spreading of osteoblasts preferentially over fibroblasts**
Fakhry A., Schneider G., Zaharias R., Senel S.
BIOMATERIALS, vol.25, no.11, pp.2075-2079, 2004 (Journal Indexed in SCI)
- XLIII. **The release of model macromolecules may be controlled by the hydrophobicity of palmitoyl glycol chitosan hydrogels**
Martin L., Wilson C., Koosha F., Tetley L., Gray A., Senel S., Uchegbu I.
JOURNAL OF CONTROLLED RELEASE, vol.80, pp.87-100, 2002 (Journal Indexed in SCI)
- XLIV. **Effect of chitosan on a periodontal pathogen Porphyromonas gingivalis**
Ikinci G., Senel S., Akincibay H., Kas S., Ercis S., Wilson C., Hincal A.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.235, pp.121-127, 2002 (Journal Indexed in SCI)
- XLV. **Drug permeation enhancement via buccal route: possibilities and limitations**
Senel S., Hincal A.
JOURNAL OF CONTROLLED RELEASE, vol.72, pp.133-144, 2001 (Journal Indexed in SCI)
- XLVI. **The effect of calcitonin on osseous healing in guinea pig mandible**
Dogan H. S. , Ozcelik B., Gedikoglu G., Senel S.
JOURNAL OF ENDODONTICS, vol.27, no.3, pp.160-163, 2001 (Journal Indexed in SCI)
- XLVII. **Enhancing effect of chitosan on peptide drug delivery across buccal mucosa**
Senel S., Kremer M., Kas S., Wertz P., Hincal A., Squier C.
BIOMATERIALS, vol.21, no.20, pp.2067-2071, 2000 (Journal Indexed in SCI)
- XLVIII. **Chitosan films and hydrogels of chlorhexidine gluconate for oral mucosal delivery**
Senel S., Ikinci G., Kas S., Yousefi-Rad A., Sargon M. F. , Hincal A.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.193, no.2, pp.197-203, 2000 (Journal Indexed in SCI)
- XLIX. **Formulation and in vitro in vivo investigation of carbamazepine controlled-release matrix tablets**
Ikinci G., Capan Y., Senel S., Dalkara T., Hincal A.
PHARMAZIE, vol.54, no.2, pp.139-141, 1999 (Journal Indexed in SCI)
- L. **Histological and bioadhesion studies on buccal bioadhesive tablets containing a penetration enhancer sodium glycodeoxycholate**
Senel S., Capan Y., Sargon M. F. , Giray C. B. , Hincal A.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.170, no.2, pp.239-245, 1998 (Journal Indexed in SCI)
- LI. **In vitro studies on enhancing effect of sodium glycocholate on transbuccal permeation of morphine hydrochloride**
Senel S., Duchene D., Hincal A., Capan Y., Ponchel G.
JOURNAL OF CONTROLLED RELEASE, vol.51, pp.107-113, 1998 (Journal Indexed in SCI)
- LII. **Enhancement of transbuccal permeation of morphine sulfate by sodium glycodeoxycholate in vitro**
Senel S., Capan Y., Sargon M. F. , Ikinci G., Solpan D., Guven O., Bodde H., Hincal A.
JOURNAL OF CONTROLLED RELEASE, vol.45, no.2, pp.153-162, 1997 (Journal Indexed in SCI)
- LIII. **FORMULATION AND INVITRO - INVIVO EVALUATIONS ON SUSTAINED-RELEASE ACETYLSALICYLIC-ACID TABLETS**
CAPAN Y., ŞENEL S., CALIS S., TAKKA S., HINCAL A.
PHARMAZEUTISCHE INDUSTRIE, vol.51, no.4, pp.443-448, 1989 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Meet our editorial board member

Xu H.

Current Drug Delivery, vol.13, no.2, pp.171, 2016 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Preparation and characterisation of chitosan/silver nanowires scaffolds for tissue engineering applications**
Aydın D., AKSOY E. A., DOĞANAY D., ÜNALAN H. E., ŞENEL S.
19th International Pharmaceutical Technology Symposium-IPTS-2018, 17 - 19 September 2018
- II. **Comparison of Two Mucoadhesive Polymers For Local Drug Delivery Into Oral Cavity**
DOĞAN S. S., Yüksel S., ŞENEL S.
19th International Pharmaceutical Technology Symposium-IPTS 201, 17 - 19 September 2018
- III. **Micro and nano systems to enhance the immune responses**
ŞENEL S.
14th International Chitin and Chitosan Conference and 12th Asia-Pacific Chitin and Chitosan Symposium, 27 - 30 August 2018
- IV. **Chitosan based bioadhesive film and wafer formulations for local delivery of antibiotics into oral cavity**
DOĞAN S. S., Yüksel S., AKCA G., ŞENEL S.
14th International Chitin and Chitosan Conference (14th ICC) and the 12th Asia- Pacific Chitin and Chitosan Symposium (12th APCCS) and 32nd Japanese Society for Chitin and Chitosan Conference, 27 - 30 August 2018
- V. **Development of Mono and Bilayered Bioadhesive Film Formulations for Oral Mucosal Drug Delivery**
DOĞAN S. S., Yüksel S., ŞENEL S.
ISOPS 2018, 26 - 29 June 2018
- VI. **Chitosan Based Gels for Local Delivery of Atorvastatin in Treatment of Periodontitis: In Vivo Studies in Periodontitis Induced Animal Model**
Özdoğan A., İLARSLAN Y. D., KÖSEMEHMETOĞLU K., KUTLU H., EL C., ŞENEL S.
AAPS Annual Meeting, 12 - 15 November 2017
- VII. **Chitosan for mucosal antigen/allergen delivery**
ŞENEL S., Hizmetli S., Gafvelin G., Zettergren L., Langebaeck J., Franzen H., Haellgren A., Andersson M.
30th Congress of the European-Academy-of-Allergy-and-Clinical-Immunology (EAACI), İstanbul, Turkey, 11 - 15 June 2011, vol.66, pp.724
- VIII. **Comparative statistical analysis of ex vivo permeation and antifungal. Activity studies of Terbinafine hydrochloride chitosan gels**
Ozcan I., Aksu B., Abaci O., BOYACIOĞLU H., Haliki A., ŞENEL S., Ozer O., Guneri T.
2nd BBBB Conference on Pharmaceutical Sciences, Tallinn-Tartu, Estonia, 13 - 15 September 2007, vol.32
- IX. **Oxytetracycline hydrochloride incorporated gel and sponges Formulation and preliminary in Vivo studies**
KORKUSUZ P., BİLGİLİ H., ŞENEL S.
Controlled Release Society, 31st Annual Meeting Exposition, 12 June 2004 - 16 June 2006
- X. **Chitosan and alginate scaffolds for tissue regeneration**
KORKUSUZ P., BİLGİLİ H., ŞENEL S.
EUCHIS 6th International Conference of the European Chitin Society, 31 August - 03 September 2004
- XI. **Kemik defektlerinin tedavisinde oksitetrasiklin hidroklorür yüklü kitosan taşıyıcı sistemlerin kullanılması**
KORKUSUZ P., BİLGİLİ H., ŞENEL S.
VII. Ulusal Histoloji ve Embriyoloji Kongresi, Turkey, 18 - 21 May 2004

Supported Projects

ŞENEL S., Industrial Thesis Project, Yerli aşı geliştirme ve analiz çalışmaları, 2015 - Continues

İLARSLAN Y. D., ŞENEL S., KÖSEMEHMETOĞLU K., TUBITAK Project, Periodontal hastalıkların tedavisi amacıyla statin içeren bir taşıyıcı sistem geliştirilmesi, 2014 - Continues

ŞENEL S., TUBITAK Project, Position Paper EUFEPS Network on Veterinary Medicines Initiative Aninterdisciplinary forum to support Veterinary Pharmacology and promote the development of new pharmaceuticals for Animal Health, 2014 - Continues

ŞENEL S., Project Supported by Higher Education Institutions, AŞI GELİŞTİRME VE ANALİZ ÇALIŞMALARI, 2014 - 2019

ŞENEL S., Project Supported by Higher Education Institutions, Controlled Release Society Annual Meeting and Exhibiton (44th), 2017 - 2017

ŞENEL S., Project Supported by Higher Education Institutions, Oral Mukozal İlaç Taşınması: Bugünü ve geleceği, 2017 - 2017

ŞENEL S., Project Supported by Higher Education Institutions, Periodontal hastalıkların tedavisi için taşıyıcı sistem geliştirilmesi, 2016 - 2016

ŞENEL S., TUBITAK Project, DENTİN HASSASİYETİ TEDAVİSİNDE TAŞIYICI SİSTEMLERİN GELİŞTİRİLMESİ, 2015 - 2016

ŞENEL S., Project Supported by Higher Education Institutions, Farklı yüklere sahip kitosan türevlerinin peptit ve proteinlere bağlanması, 2015 - 2015

ŞENEL S., Project Supported by Higher Education Institutions, Yeni ortaya çıkan enfeksiyon hastalıklar için potansiyel adjuvanlar ve taşıyıcı sistemler, 2015 - 2015

ŞENEL S., Project Supported by Higher Education Institutions, Bölgesel ilaç taşınmasında farmakolojik ve teknolojik temeller, 2015 - 2015

Citations

Total Citations (WOS):2141

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