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Education Information

Post Doctorate, Virginia Commonwealth University, School Of Pharmacy, Medicinal Chemistry, United States Of America
2001 - 2003

Doctorate, Hacettepe Üniversitesi, Sağlık Bilimleri Ens., Farmasötik Kimya, Turkey 1996 - 2000

Post Graduate, Hacettepe Üniversitesi, Sağlık Bilimleri Ens., Farmasötik Kimya, Turkey 1993 - 1996

Under Graduate, Hacettepe Üniversitesi, Eczacılık Fak., Turkey 1988 - 1993

Dissertations

Doctorate, Kalsiyum modülatör etkili hegzahidrokinolin türevleri üzerinde çalışmalar, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2000

Post Graduate, 1-açıl-3,5-diaril-2-pirazolin türevleri üzerinde çalışmalar, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1996

Research Areas

Health Sciences, Pharmacology and Therapeutics, Professional Sciences, Pharmaceutical Chemistry

Advising Theses

ŞİMŞEK R., Synthesis of condensed 1,4-dihydropyridine derivatives and evaluation of their calcium channel modulating and antioxidant activities, Doctorate, A.SAMİR(Student), 2014

ŞİMŞEK R., Kondanse 1,4-dihidropiridin türevleri ve kalsiyum kanalları üzerine etileri, Post Graduate, B.BÜLBÜL(Student), 2008

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

- Synthesis and spectroscopic characterization and DFT study of benzyl 4-([1,1'-biphenyl]-4-yl)-2,6,6-trimethyl-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylate**
Yildirim S. O. , BÜYÜKMUMCU Z., Butcher R. J. , ÇETİN G., ŞİMŞEK R.
JOURNAL OF MOLECULAR STRUCTURE, vol.1200, 2020 (Journal Indexed in SCI)
- Synthesis of fused 1,4-dihydropyridines as potential calcium channel blockers**
Ozer E. K. , GÜNDÜZ M. G. , El-Khouly A., Sara Y., ŞİMŞEK R., İSKİT A. B. , Safak C.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.43, no.6, pp.578-586, 2018 (Journal Indexed in SCI)

- III. **Synthesis, structural characterization and density functional studies of ethyl 4-(biphenyl-4-yl)-2,6,6-trimethyl-5-oxo-1,4,5,6,7,8-updtte hexahydroquinoline-3-carboxylate A non-merohedral twinned structure**
Yidirim S. O. , BÜYÜKMUMCU Z., Butcher R. J. , ÇETİN G., ŞİMŞEK R., Safak C.
JOURNAL OF MOLECULAR STRUCTURE, vol.1163, pp.161-166, 2018 (Journal Indexed in SCI)
- IV. **Synthesis, crystal structure and antimycobacterial activities of 4-indolyl-1,4-dihydropyridine derivatives possessing various ester groups**
BAYDAR E., GÜNDÜZ M. G. , KRİSHNA V. S. , ŞİMŞEK R., SRİRAM D., Yildirim S. O. , Butcher R. J. , Safak C.
RESEARCH ON CHEMICAL INTERMEDIATES, vol.43, no.12, pp.7471-7489, 2017 (Journal Indexed in SCI)
- V. **Theoretical and experimental study of the ground and excited states of 1,4-dihydropyridine based hexahydroquinoline derivatives achieved by microwave irradiation**
GÜNDÜZ M. G. , da Silva C. d. B. , ZANOTTO G. M. , TOLDO J. M. , ŞİMŞEK R., Safak C., Bruno Goncalves P. F. , Rodembusch F. S.
NEW JOURNAL OF CHEMISTRY, vol.41, no.20, pp.11686-11694, 2017 (Journal Indexed in SCI)
- VI. **Synthesis and photodegradation studies of analogues of muscle relaxant 1,4-dihydropyridine compounds**
GÜNDÜZ M. G. , Ragno G., ŞİMŞEK R., De Luca M., Safak C., Grande F., El-Khouly A., Isli F., Yildirim S., Fincan G. S. O. , et al.
ACTA PHARMACEUTICA, vol.67, no.3, pp.341-355, 2017 (Journal Indexed in SCI)
- VII. **Free radicals properties of some gamma-irradiated organic compounds**
ŞİMŞEK R., GÜNDÜZ M. G. , Safak C., Kokpinar O., Aydin M.
BULGARIAN CHEMICAL COMMUNICATIONS, vol.49, no.1, pp.82-86, 2017 (Journal Indexed in SCI)
- VIII. **Synthesis, structural characterization and myorelaxant activity of 4-naphthylhexahydroquinoline derivatives containing different ester groups**
GÜNDÜZ M. G. , ALBAYRAK E., Isli F., Fincan G. S. O. , Yildirim S., ŞİMŞEK R., Safak C., Sarioglu Y., Yidirim S. O. , Butcher R. J.
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.81, no.7, pp.729-738, 2016 (Journal Indexed in SCI)
- IX. **Synthesis and Biological Evaluation of New Tricyclic Dihydropyridine Based Derivatives on Potassium Channels**
GÜNDÜZ M. G. , KAYA YAŞAR Y., ŞİMŞEK R., ERDEMLİ İ., ŞAFAK O. C.
Iranian Journal Of Pharmaceutical Research, 2016 (Journal Indexed in SCI Expanded)
- X. **Photodegradation studies of 1,4-dihydropyridine compounds by MCR analysis on UV spectral data**
Ioele G., GÜNDÜZ M. G. , DE LUCA M., ŞİMŞEK R., Safak C., MUZZALUPO R., RAGNO G.
FUTURE MEDICINAL CHEMISTRY, vol.8, no.2, pp.107-115, 2016 (Journal Indexed in SCI)
- XI. **Analgesic effect of a broad-spectrum dihydropyridine inhibitor of voltage-gated calcium channels**
Gadotti V. M. , Bladen C., Zhang F. X. , Chen L., GÜNDÜZ M. G. , ŞİMŞEK R., Safak C., Zamponi G. W.
PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY, vol.467, no.12, pp.2485-2493, 2015 (Journal Indexed in SCI)
- XII. **1,4-Dihydropyridine derivatives with T-type calcium channel blocking activity attenuate inflammatory and neuropathic pain**
Bladen C., Gadotti V. M. , GÜNDÜZ M. G. , Berger N. D. , ŞİMŞEK R., Safak C., Zamponi G. W.
PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY, vol.467, no.6, pp.1237-1247, 2015 (Journal Indexed in SCI)
- XIII. **Microwave-assisted synthesis of condensed 1,4-dihydropyridines as potential calcium channel modulators**
Ozer E. K. , GÜNDÜZ M. G. , El-Khouly A., SARA M. Y. , ŞİMŞEK R., İSKİT A. B. , Safak O. C.
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- XIV. **Synthesis and Evaluation of 1,4-Dihydropyridine Derivatives with Calcium Channel Blocking Activity**
Bladen C., GÜNDÜZ M. G. , ŞİMŞEK R., Safak C., Zamponi G. W.
PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY, vol.466, no.7, pp.1355-1363, 2014 (Journal Indexed in SCI)

- XV. **Microwave-assisted synthesis and myorelaxant activity of 9-indolyl-1,8-acridinedione derivatives**
GÜNDÜZ M. G. , Isli F., El-Khouly A., Yildirim S., Fincan G. S. O. , ŞİMŞEK R., Safak C., Sarioglu Y., Yildirim S. O. , Butcher R. J.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.75, pp.258-266, 2014 (Journal Indexed in SCI)
- XVI. **ESR study of some gamma irradiated amino acids and condensed 1,4-dihydropyridines**
Aydin M., ŞİMŞEK R., GÜNDÜZ M. G. , Safak C., Osmanoglu Y. E.
JOURNAL OF MOLECULAR STRUCTURE, vol.1035, pp.378-382, 2013 (Journal Indexed in SCI)
- XVII. **Synthesis and Myorelaxant Activity of Fused 1,4-Dihydropyridines on Isolated Rabbit Gastric Fundus**
Safak C., GÜNDÜZ M. G. , Ilhan S. O. , ŞİMŞEK R., Isli F., Yildirim S., Fincan G. S. O. , Sarioglu Y., Linden A.
DRUG DEVELOPMENT RESEARCH, vol.73, no.6, pp.332-342, 2012 (Journal Indexed in SCI)
- XVIII. **Investigation of myorelaxant activity of 9-aryl-3,4,6,7-tetrahydroacridine-1,8-(2H,5H,9H,10H)-diones in isolated rabbit gastric fundus**
Fincan G. S. O. , GÜNDÜZ M. G. , Vural I. M. , ŞİMŞEK R., Sarioglu Y., Safak C.
MEDICINAL CHEMISTRY RESEARCH, vol.21, no.8, pp.1817-1824, 2012 (Journal Indexed in SCI)
- XIX. **Synthesis of Cyclopentapyridine and Thienopyridine Derivatives as Potential Calcium Channel Modulators**
GÜNDÜZ M. G. , SAFAK C., Kaygisiz B., Kosar B. C. , ŞİMŞEK R., Erol K., Linden A.
ARZNEIMITTELFORSCHUNG-DRUG RESEARCH, vol.62, no.4, pp.167-175, 2012 (Journal Indexed in SCI)
- XX. **Two 1,4-dihydropyridine derivatives with potential calcium-channel antagonist activity**
Linden A., Safak C., ŞİMŞEK R., GÜNDÜZ M. G.
ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, vol.67, 2011 (Journal Indexed in SCI)
- XXI. **7-Substituted Hexahydroquinoline Derivatives and their Calcium Channel Modulator Effects**
GÜNDÜZ M. G. , Celebi S., Kaygisiz B., ŞİMŞEK R., Erol K., Safak C.
LATIN AMERICAN JOURNAL OF PHARMACY, vol.28, no.6, pp.922-926, 2009 (Journal Indexed in SCI)
- XXII. **Substituted 9-aryl-1,8-acridinedione derivatives and their effects on potassium channels**
GÜNDÜZ M. G. , Dogan A. E. , ŞİMŞEK R., Erol K., Safak C.
MEDICINAL CHEMISTRY RESEARCH, vol.18, no.4, pp.317-325, 2009 (Journal Indexed in SCI)
- XXIII. **Condensed 1,4-dihydropyridines with various esters and their calcium channel antagonist activities**
Bulbul B., Ozturk G. S. , Vural M., ŞİMŞEK R., Sarioglu Y., Linden A., Ulgen M., Safak C.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.44, no.5, pp.2052-2058, 2009 (Journal Indexed in SCI)
- XXIV. **Evaluation of myorelaxant activity of 7-substituted hexahydroquinoline derivatives in isolated rabbit gastric fundus**
GÜNDÜZ M. G. , Ozturk G. S. , Vural I. M. , ŞİMŞEK R., Sarioglu Y., Safak C.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.43, no.3, pp.562-568, 2008 (Journal Indexed in SCI)
- XXV. **Structure-activity relationships of receptor binding of 1,4-dihydropyridine derivatives**
Takahashi D., Oyuncul L., Onoue S., Ito Y., Uchida S., ŞİMŞEK R., GÜNDÜZ M. G. , Safak C., Yamada S.
BIOLOGICAL & PHARMACEUTICAL BULLETIN, vol.31, no.3, pp.473-479, 2008 (Journal Indexed in SCI)
- XXVI. **Synthesis of 2-Methyl-4-aryl-4,6,7,8-tetrahydro-5(1H)-quinolone Derivatives and their Effects on Potassium Channels**
Oeztuerk G. S. , Vural M., Guenduez M. G. , ŞİMŞEK R., Sarioglu Y., SAFAK C.
ARZNEIMITTELFORSCHUNG-DRUG RESEARCH, vol.58, no.12, pp.659-665, 2008 (Journal Indexed in SCI)
- XXVII. **Synthesis and calcium modulatory activity of 3-alkyloxycarbonyl-4-(disubstituted)aryl-5-oxo-1,4,5,6,7,8-hexahydroquinoline derivatives**
ŞİMŞEK R., Ozturk G. S. , Vural I. M. , GÜNDÜZ M. G. , Sarioglu Y., Safak C.
ARCHIV DER PHARMAZIE, vol.341, no.1, pp.55-60, 2008 (Journal Indexed in SCI)
- XXVIII. **Studies on condensed 1,4-dihydropyridine derivatives and their calcium modulatory activities**
Aydin F., Safak C., Simsek R., Erol K., Ulgen M., Linden A.
PHARMAZIE, vol.61, no.8, pp.655-659, 2006 (Journal Indexed in SCI)
- XXIX. **Fused 1,4-dihydropyridines as potential calcium modulatory compounds**
Safak C., Simsek R.
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- XXX. **Cocrystals of diastereoisomers of 1,4-dihydropyridine derivatives**
Linden A., Gunduz M. G. , SIMSEK R., SAFAK C.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.62, 2006 (Journal Indexed in SCI)
- XXXI. **4-Difluoro-substituted phenyl-5-oxo-hexahydroquinoline derivatives and their effects on calcium channels**
Simsek R., Gunduz M. G. , Sirmagul B., Safak C., Erol K., Linden A.
ARZNEIMITTELFORSCHUNG-DRUG RESEARCH, vol.56, no.7, pp.529-534, 2006 (Journal Indexed in SCI)
- XXXII. **(+/-)-Methyl and (+/-)-ethyl 4-(2,3-difluorophenyl)-2,6,6-trimethyl-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylate**
Linden A., Simsek R., Gunduz M. G. , Safak C.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.61, 2005 (Journal Indexed in SCI)
- XXXIII. **Synthesis, evaluation of the calcium antagonistic activity and biotransformation of hexahydroquinoline and furoquinoline derivatives**
Simsek R., Safak C., Erol K., Ataman S., Ulgen M., Linden A.
ARZNEIMITTEL-FORSCHUNG-DRUG RESEARCH, vol.53, no.3, pp.159-166, 2003 (Journal Indexed in SCI)
- XXXIV. **Vasorelaxing properties of some phenylacridine type potassium channel openers in isolated rabbit thoracic arteries**
Berkan O. C. , Sarac B., Simsek R., Yildirim S., Sarioglu Y., Safak C.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.37, no.6, pp.519-523, 2002 (Journal Indexed in SCI)
- XXXV. **Photochemical study of hexahydroquinoline derivatives - A new group of calcium antagonists**
Mielcarek J., Safak C., Simsek R., Matloka A.
ARCHIV DER PHARMAZIE, vol.335, pp.77-82, 2002 (Journal Indexed in SCI)
- XXXVI. **Synthesis of hexahydroquinoline derivatives possessing calcium antagonistic activity**
Simsek R., Safak C., Erol K., Sirmagul B.
PHARMAZIE, vol.56, no.8, pp.665-666, 2001 (Journal Indexed in SCI)
- XXXVII. **Studies on calcium antagonist activities of 2-ethyl-3-carbomethoxy-4-aryl-5-oxo-6,6-dimethyl-1,4,5,6,7,8-hexahydroquinoline derivatives**
Simsek R., Safak C., Erol K., Sirmagul B.
ARZNEIMITTEL-FORSCHUNG-DRUG RESEARCH, vol.51, no.12, pp.959-963, 2001 (Journal Indexed in SCI)
- XXXVIII. **(+/-)-9-(2-Bromophenyl)-7,7-dimethyl-1,3,4,5,6,7,8,9-octahydrofuro[3,4-b]quinoline-1,8-dione**
Simsek R., Linden A., Safak C.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.56, pp.351-353, 2000 (Journal Indexed in SCI)
- XXXIX. **Some azolythioacetamides and their analgesic and antiinflammatory activities**
Simsek R., Kelicen P., Safak C., Akgun H., Demirdamar R.
PHARMAZIE, vol.54, no.3, pp.229-231, 1999 (Journal Indexed in SCI)
- XL. **Racemic ethyl 4-(2-fluorophenyl)-2,6,6-trimethyl-5-oxo-1,4,5,6,7,8-hexahydro-quinoline-3-carboxylate**
Linden A., Safak C., Simsek R.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.54, pp.879-882, 1998 (Journal Indexed in SCI)
- XLI. **Analgesic and antiinflammatory effects of some 2-mercaptobenzoxazole derivatives**
Safak C., Simsek R., Erol K., Vural K.
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Articles Published in Other Journals

1. **Electrochemical detection of antioxidant activities of 4-indolyl-5-oxo-6,6 (or 7,7)-dimethyl-**

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SÜSLÜ İ., ERDOĞAN KABLAN S., Safak C., ŞİMŞEK R.

JOURNAL OF RESEARCH IN PHARMACY, vol.25, no.1, pp.52-62, 2021 (Journal Indexed in ESCI)

- II. **2,2,7,7-Tetramethyl-1,2,3,4,5,6,7,8-octahydroacridine-1,8-dione**
Yildirim S. O. , Butcher R. J. , ŞİMŞEK R., El-Khouly A., Safak C.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.69, 2013 (Journal Indexed in ESCI)
- III. **Ethyl 2,7,7-trimethyl-4-(1-methyl-1H-indol-3-yl)-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylate**
Yildirim S. O. , Butcher R. J. , GÜNDÜZ M. G. , El-Khouly A., ŞİMŞEK R., Safak C.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.69, 2013 (Journal Indexed in ESCI)
- IV. **3,3,6,6-Tetramethyl-9-(1-methyl-1H-indol-2-yl)-1,2,3,4,5,6,7,8,9,10-deca-hydroacridine-1,8-dione**
Yildirim S. O. , Butcher R. J. , El-Khouly A., Safak C., ŞİMŞEK R.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.68, 2012 (Journal Indexed in ESCI)
- V. **Ethyl 4-(5-bromo-1H-indol-3-yl)-2,6,6-trimethyl-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylate**
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ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.68, 2012 (Journal Indexed in ESCI)
- VI. **9-(5-Bromo-1H-indol-3-yl)-1,2,3,4,5,6,7,8,9,10-decahydroacridine-1,8-dionedimethyl sulfoxide monosolvate**
El-Khouly A., Yildirim S. O. , Butcher R. J. , ŞİMŞEK R., Safak C.
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- VII. **Antimicrobial Screening of 2 Methyl 3 Acyl 4 Aryl 2 6 6 and or 2 7 7 Trimethyl 1 4 5 6 7 8 Hexahydroquinoline Derivatives**
GÜNDÜZ M. G. , EKİZOĞLU M., KART D., ŞİMŞEK R., ŞAFAK O. C.
Hacettepe University, J. Faculty of Pharmacy, vol.31, no.1, pp.51-58, 2011 (Other Refereed National Journals)

Books & Book Chapters

I. Türk Farmakopesi

TUNÇBİLEK M., YEŞİLADA A., BALKAN A., TOZKOPARAN B., PALASKA E., ÖZKANLI F., KÜÇÜKGÜZEL İ., GÖKHAN KELEKÇİ N., ŞİMŞEK R., SARAÇ TARHAN S., et al.

T. C. Sağlık Bakanlığı Türkiye İlaç ve Tıbbi Cihaz Kurumu, Ankara, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Experimental and Molecular Modeling Investigation of Isopropyl 4-(Biphenyl-4-Yl)-2,6,6-Trimethyl-5-Oxo-1,4,5,6,7,8-Hexahydroquinoline-3-Carboxylate**
Yildirim S. O. , ÇETİN G., BÜYÜKMUMCU Z., ŞİMŞEK R., Safak C., Butcher R. J. , Pakdur O. S.
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935
- II. **Antimicrobial Screening of 1 4 Dihydropyridine Derivatives**
EKİZOĞLU M., GÜNDÜZ M. G. , KART D., ŞİMŞEK R., ŞAFAK O. C.
4th International Meeting on Medicinal and Pharmaceutical Chemistry-6th International Symposium on Pharmaceutical Chemistry Joint Meeting, 30 September - 02 October 2010

Supported Projects

- ŞİMŞEK R., ŞAFAK O. C. , GÜNDÜZ M. G. , ÇETİN G., Project Supported by Higher Education Institutions, Alkil 2,6,6(2,7,7)-trimetil-4-(bifenil)-5-okso-1,4,5,6,7,8-hekzahidrokinolin 3-karboksilat türevlerinin sentezi ve karakterizasyonu, 2017 - 2018
- GÜNDÜZ M. G. , ÇETİN G., ŞİMŞEK R., ŞAFAK O. C. , Project Supported by Higher Education Institutions, L-Tipi Kalsiyum Kanal Blokörü Kondanse 1,4-Dihidropiridin Türevlerinin Mikrodalga Yardımıyla Sentezi, 2016 - 2017
- ŞİMŞEK R., Project Supported by Higher Education Institutions, BOSS XV 15 Belçika Organik Sentez Sempozyumu, 2016 - 2016
- ŞAFAK O. C. , ŞİMŞEK R., GÜNDÜZ M. G. , EKİZOĞLU M., Baydar E., Project Supported by Higher Education Institutions, Kondanse 14Dihidropiridin Türevlerinin Sentezi ile Antimikrobiyal ve Antioksidan Etkileri Üzerinde Çalışmalar, 2016 - 2016
- ŞİMŞEK R., KÜRKCÜOĞLU B., Project Supported by Higher Education Institutions, Hacettepe Üniversitesi Medya İletişim ve Tanıtım Koordinatörlüğü Altyapı Geliştirme Projesi, 2015 - 2016
- ŞİMŞEK R., Project Supported by Higher Education Institutions, Kondanse 1,4-Dihidropiridin Türevlerinin Sentezi, Kalsiyum Nodulatör Etkilerinin ve Antioksidan Özelliklerinin Araştırılması, 2013 - 2016
- ŞİMŞEK R., Project Supported by Higher Education Institutions, Sentetik Kimya 2015, Orta Vadede Yükselen Hedefler ve Moleküller, 2015 - 2015
- ŞİMŞEK R., Project Supported by Higher Education Institutions, Hacettepe Üniversitesi Ulusal ve Uluslararası Tanıtım Etkinliklerinin Yeniden Düzenlenmesi, 2014 - 2015
- ŞİMŞEK R., TÜBİTAK Project, Kalsiyum Kanal Modulatör Etkili Kondanse 1 4 Dihidropiridin Türevleri, 2013 - 2014

Citations

Total Citations (WOS):517

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