



Asst. Prof. ENGİN EMSEN

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#### International Researcher IDs

ORCID: 0000-0002-5904-2737

Publons / Web Of Science ResearcherID: C-2363-2016

ScopusID: 26039051400

Yoksis Researcher ID: 128448

#### Education Information

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- I. Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı (Yapı), Turkey 2002 - 2006
- II. Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı (Yapı), Turkey 1999 - 2002
- III. Undergraduate, Cukurova University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1994 - 1999

#### Foreign Languages

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- I. Russian, B1 Intermediate
- II. English, B2 Upper Intermediate

#### Dissertations

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- I. Doctorate, Non-Planar Coupled Shear Walls with Stiffening Beams and Stepwise Cross-Sectional Changes, Cukurova University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı (Yapı), 2006
- II. Postgraduate, Elastik Temele Oturan Güçlendirici Kirişli İki Sıra Boşluklu Deprem Perdelerinin Serbest Titreşim Analizi, Cukurova University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı (Yapı), 2002

#### Research Areas

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Civil Engineering, Mechanical, Structural Mechanics, Building Dynamics, Structure, Performance of Constructed Facilities, Earthquake Engineering, Concrete Structures, Repair and Strengthening in Buildings, Engineering and Technology

## Academic Titles / Tasks

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- I. Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2018 - Continues
- II. Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2007 - 2018
- III. Lecturer PhD, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2006 - 2007
- IV. Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, 2001 - 2006

## Academic and Administrative Experience

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- I. Akdeniz University, Rectorate, Enerji Yönetimi Ve Verimliliği Uygulama Ve Araştırma Merkezi, 2021 - Continues
- II. Akdeniz University, Rectorate, Deprem Araştırmaları Uygulama Ve Araştırma Merkezi, 2018 - Continues
- III. Deputy Head of Department, Akdeniz University, Faculty Of Engineering, Department of Civil Engineering, 2019 - 2022
- IV. Akdeniz University, Faculty of Engineering, Fakülte Yönetim Kurulu, 2012 - 2015
- V. Akdeniz University, Faculty of Engineering, İnşaat Mühendisliği Bölümü, Yapı Anabilim Dalı, 2007 - 2013
- VI. Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2008 - 2010

## Courses

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- I. YAPISAL MODELLEME İLKELERİ, Postgraduate, 2023 - 2024, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
- II. BİLGİSAYAR DESTEKLİ YAPI ANALİZİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
- III. BETONARME II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2007 - 2008
- IV. BETONARME I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2007 - 2008
- V. BETONARME YAPI TASARIMI, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2007 - 2008
- VI. İLERİ YAPI ANALİZİ, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
- VII. YAPI DİNAMİĞİ, Postgraduate, 2012 - 2013, 2011 - 2012

## Advising Theses

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- I. Emsen E., Farklı geometrik özelliklere sahip gazbeton duvar numuneleri için yapılan diyagonal kayma deneylerinin sayısal olarak incelenmesi, Postgraduate, I.EREN(Student), 2022
- II. Emsen E., Tarihi yapıların bilgisayar destekli analizi: Onaç Köprüsü örneği, Postgraduate, S.ASLAN(Student), 2022
- III. Emsen E., Çelik Levhalarla Kesmeye Karşı Güçlendirilen Betonarme Kirişlerin Analitik Olarak Modellenmesi, Postgraduate, O.DÜZGÜNLÜ(Student), 2019
- IV. Emsen E., Tarihi Yığma Taş Yapıların Bilgisayar Destekli Analizi: Ayvalıkemer (Sillyon) Köprüsü Yapısı Örneği, Postgraduate, O.Şafak(Student), 2019
- V. Emsen E., Tarihi yapıların bilgisayar destekli analizi: Patara antik kent tiyatrosu sahne yapısı örneği, Postgraduate,

H.ÖZDEMİR(Student), 2018

- VI. Emsen E., Betonarme bir binanın probina orion bilgisayar programıyla deprem performansının belirlenmesi ve sonuçların DBYBHY-2007 bakımından değerlendirilmesi, Postgraduate, Ş.Sağlam(Student), 2013
- VII. Emsen E., Betonarme Perde Konularının Bina Deprem Performansına Olan Etkisinin Bilgisayar Destekli İrdelenmesi, Postgraduate, E.ARACI(Student), 2012

#### Published journal articles indexed by SCI, SSCI, and AHCI

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- I. **Ayvalikemer (Sillyon) historical masonry arch bridge: a multidisciplinary approach for structural assessment using point cloud data obtained by terrestrial laser scanning (TLS)**  
Batar O. S., Tercan E., EMSEN E.  
JOURNAL OF CIVIL STRUCTURAL HEALTH MONITORING, vol.11, no.5, pp.1239-1252, 2021 (SCI-Expanded)
- II. **An investigation on behavior of RC frames with non-interacting infill wall**  
Bikce M., EMSEN E., Erdem M. M., Bayrak O. F.  
ENGINEERING STRUCTURES, vol.245, 2021 (SCI-Expanded)
- III. **Experimental and numerical investigation of new flexible connection elements between infill walls-RC frames**  
Erdem M. M., EMSEN E., Bikce M.  
CONSTRUCTION AND BUILDING MATERIALS, vol.296, 2021 (SCI-Expanded)
- IV. **Effect of silicon dioxide substrate on buckling behavior of Zinc Oxide nanotubes via size-dependent continuum theories**  
Mercan K., EMSEN E., CİVALEK Ö.  
COMPOSITE STRUCTURES, vol.218, pp.130-141, 2019 (SCI-Expanded)
- V. **Dynamic analysis of non-planar coupled shear walls with stiffening beams using Continuous Connection Method**  
Aksogan O., Turkozer C. D., EMSEN E., Resatoglu R.  
THIN-WALLED STRUCTURES, vol.82, pp.95-104, 2014 (SCI-Expanded)
- VI. **Static analysis of non-planar coupled shear walls with stepwise changes in geometrical properties using continuous connection method**  
EMSEN E., Aksogan O.  
THIN-WALLED STRUCTURES, vol.56, pp.21-32, 2012 (SCI-Expanded)
- VII. **Static analysis of non-planar pierced shear walls with semi-rigid beam-wall connections using continuous connection technique**  
Resatoglu R., Aksogan O., EMSEN E., Bikce M.  
SCIENTIFIC RESEARCH AND ESSAYS, vol.5, no.23, pp.3634-3645, 2010 (SCI-Expanded)
- VIII. **Static analysis of laterally arbitrarily loaded non-planar non-symmetrical coupled shear walls**  
Resatoglu R., Aksogan O., EMSEN E.  
THIN-WALLED STRUCTURES, vol.48, no.9, pp.696-708, 2010 (SCI-Expanded)
- IX. **Non-planar coupled shear walls with stiffening beams**  
EMSEN E., Turkozer C. D., Aksogan O., Resatoglu R., Bikce M.  
SCIENTIFIC RESEARCH AND ESSAYS, vol.4, no.4, pp.328-345, 2009 (SCI-Expanded)
- X. **Discrete singular convolution method for bending analysis of Reissner/Mindlin plates using geometric transformation**  
Civalek O., EMSEN E.  
STEEL AND COMPOSITE STRUCTURES, vol.9, no.1, pp.59-75, 2009 (SCI-Expanded)
- XI. **A simplified dynamic analysis of multi-bay stiffened coupled shear walls**  
AKSOGAN O., BIKCE M., Emsen E., Arslan H. M.  
ADVANCES IN ENGINEERING SOFTWARE, vol.38, no.8-9, pp.552-560, 2007 (SCI-Expanded)
- XII. **The effect of particle size distribution on the properties of blended cements incorporating GGBFS**

**and natural pozzolan (NP)**

BINICI H., AKSOGAN O., CAGATAY I. H., TOKYAY M., Emsen E.

POWDER TECHNOLOGY, vol.177, no.3, pp.140-147, 2007 (SCI-Expanded)

**Articles Published in Other Journals**

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- I. **Optimum Design Of Elastic Continuous Foundations With The Artificial Bee Colony Method**  
Turan S., Aydođdu İ., Emsen E.  
International Journal of Engineering and Applied Sciences, vol.15, no.1, pp.36-51, 2023 (Peer-Reviewed Journal)
- II. **Dolgu Duvarların Düzlem İçi ve Düzlem Dışı Davranışına Esnek Derzli Bağlantı Elemanının Etkisi**  
Bayrak O. F., Bikçe M., Erdem M. M., Emsen E.  
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.3, no.1, pp.24-28, 2020 (Peer-Reviewed Journal)
- III. **Generalized Static Analysis of Non-Planar Coupled Shear Walls with both Stiffening Beams and Stepwise Cross-Sectional Changes**  
EMSEN E., AKSOGAN O.  
International Journal of Civil and Structural Engineering- IJCSE, vol.3, no.1, pp.257-261, 2016 (Peer-Reviewed Journal)
- IV. **Modal analysis of tapered beam-column embedded in Winkler elastic foundation**  
EMSEN E., MERCAN K., AKGÖZ B., CİVALEK Ö.  
International Journal of Engineering and Applied Sciences, vol.7, no.1, pp.25-35, 2015 (Peer-Reviewed Journal)
- V. **Boşluklu deprem perdelerinde güçlendirici kiriş konumunun önemi**  
Bikçe M., EMSEN E., AKSOĞAN O.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.21, pp.63-70, 2006 (Peer-Reviewed Journal)
- VI. **Kiriş-duvar bağlantıları esnek olan iki sıra boşluklu perdelerin statik analizi**  
EMSEN E., GÖRGÜN H., AKSOĞAN O.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.20, pp.95-109, 2005 (Peer-Reviewed Journal)
- VII. **İki sıra boşluklu deprem perdelerinde tek güçlendirici kiriş konumunun toplam perde eğilme momentine etkisi**  
EMSEN E., AKSOĞAN O., BİKÇE M., GÖRGÜN H.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.20, pp.81-93, 2005 (Peer-Reviewed Journal)
- VIII. **İki sıra boşluklu deprem perdelerinde tek güçlendirici kiriş konumunun perde yanal yerdeğıştirmesine etkisi**  
EMSEN E., AKSOĞAN O., BİKÇE M.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.20, pp.39-51, 2005 (Peer-Reviewed Journal)
- IX. **Free vibrations of elastically supported stiffened coupled shear walls with stepwise changes in width**  
AKSOĞAN O., ARSLAN H. M., EMSEN E., CHOO B. S.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.19, pp.1-14, 2004 (Peer-Reviewed Journal)
- X. **Çok sıra boşluklu deprem perdelerinin değışik yöntemlerle analizi**  
ÜNSAL Z., AKSOĞAN O., EMSEN E.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.19, pp.53-69, 2004 (Peer-Reviewed Journal)

- I. **An Analytical Study on Flexible Joint Between Infill Walls RC Frames**  
EMSEN E., ERDEM M. M., BİKÇE M., BAYRAK O. F.  
2021 8th International Conference on Geological and Civil Engineering (ICGCE 2021), Tokyo, Japan, 28 - 30 January 2021, pp.37
- II. **An Experimental Study on Flexible Joint Between Infill Walls-RC Frames**  
ERDEM M. M., EMSSEN E., BİKÇE M.  
2021 8th International Conference on Geological and Civil Engineering (ICGCE 2021), Tokyo, Japan, 28 - 30 January 2021, pp.37-38
- III. **Esnek Derzli Dolgu Duvar – Çerçeve Bağlantısı ve Yerel Zemin Sınıfının Kolon Kesitlerine Etkisinin İncelenmesi**  
ERDEM M. M., EMSSEN E., BİKÇE M.  
International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, iSTE-CE'2019, Hatay, Turkey, 13 - 15 June 2019, pp.1-11
- IV. **Esnek Derzli Dolgu Duvarların Düzlem İçi ve Düzlem Dışı Davranışı**  
BAYRAK O. F., ERDEM M. M., BİKÇE M., EMSSEN E.  
International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, iSTE-CE'2019, Hatay, Turkey, 13 - 15 June 2019, pp.12-17
- V. **Generalized Static Analysis of Non-Planar Coupled Shear Walls with Stiffening Beams and Stepwise Cross-Sectional Changes**  
EMSEN E., Aksogan O.  
Third International Conference on Advances in Civil, Structural and Construction Engineering (CSCE 2015), Roma, Italy, 10 - 11 December 2015, pp.36-40
- VI. **Mevcut Betonarme Yapılarda Kısa Kolon Davranışının İyileştirilmesi**  
Demir S., Hüsem M., Altın S., Pul S., Bıkçe M., EMSSEN E.  
2'nci Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Hatay, Turkey, 25 - 27 September 2013, pp.171
- VII. **Betonarme Perdelerde Bırakılan Bant Tipi Boşluklar Nedeniyle Depremde Oluşan Kısa Kolon Etkisinin İyileştirilmesi**  
Hüsem M., Altın S., Pul S., Bıkçe M., EMSSEN E.  
4'üncü Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, Trabzon, Turkey, 2 - 05 May 2013, pp.5-6
- VIII. **Dynamic Analysis of 3-D Coupled Shear Walls with Changes in Cross-Section Using Continuous Connection Method**  
TURKOZER C. D., EMSSEN E., AKSOGAN O.  
The Tenth International Conference on Vibration Problems (ICOVP2011), Prag, Czech Republic, 5 - 08 September 2011, pp.1-6
- IX. **Dynamic Analysis of 3-D Coupled Shear Walls with Changes in Cross-Section Using Continuous Connection Method**  
Turkozer C. D., EMSSEN E., Aksogan O.  
10th Biennial International Conference on Vibration Problems (ICOVP), Prague, Czech Republic, 5 - 08 September 2011, pp.44-50
- X. **Dynamic Analysis of Non-Planar Coupled Shear Walls with Stiffeners using a Continuous Connection Method**  
TURKOZER C. D., AKSOGAN O., EMSSEN E., RESATOGLU R.  
The Tenth International Conference on Computational Structures Technology (CST2010), Valensiya, Spain, 14 - 17 September 2010, pp.1-20
- XI. **Dynamic Analysis of Non-Planar Coupled Shear Walls with Stiffeners using a Continuous Connection Method**  
Turkozer C. D., Aksogan O., EMSSEN E., Resatoglu R.  
10th International Conference on Computational Structures Technology, Valencia, Spain, 14 - 17 September 2010,

- XII. **Free Vibrations of 3-D Pierced Shear Walls with Changes in Cross-Section Using Continuous Connection Method**  
AKSOĞAN O., TURKOZER C. D., EMSEN E.  
6th Vienna International Conference on Mathematical Modelling, Viyana, Austria, 11 - 13 February 2009, pp.1-8
- XIII. **Free vibration analysis of non-planar coupled shear walls using continuous connection method**  
TURKOZER C. D., AKSOĞAN O., EMSEN E., RESATOĞLU R.  
The Ninth International Conference on Vibration Problems (ICOVP2009), Kharagpur, India, 19 - 22 January 2009, pp.1-8
- XIV. **Non-planar coupled shear walls with stiffening beams**  
EMSEN E., AKSOĞAN O., RESATOĞLU R., BİKÇE M., ARSLAN H. M., GÖRGÜN H.  
9th International Conference on Computational Structures Technology, CST 2008, Athens, Greece, 2 - 05 September 2008, vol.88
- XV. **Antalya il merkezinin sismik yönden değerlendirilmesi**  
ACAR M. H., ÇAĞLAYAN A., EMSEN E., BUDAK G.  
International Symposium on Advances in Earthquake & Structural Engineering (AESE 2007), Isparta, Turkey, 24 - 26 October 2007, pp.1-5
- XVI. **Antalya il merkezinin sismik yönden değerlendirilmesi**  
ACAR M. H., ÇAĞLAYAN A., EMSEN E., BUDAK G.  
International Symposium on Advances in Earthquake & Structural Engineering (AESE 2007), Isparta, Turkey, 24 - 26 October 2007, pp.1-5
- XVII. **Static Analysis of Laterally Arbitrarily Loaded Non-Planar Non-Symmetrical Coupled Shear Walls**  
AKSOĞAN O., RESATOĞLU R., EMSEN E.  
The Eighth International Conference on Computational Structures Technology (CST2006), Las Palmas De Gran Canaria, Spain, 12 - 15 September 2006, pp.768-787
- XVIII. **Non-Planar Pierced Shear Walls with Plastic Beam-Wall Connections**  
RESATOĞLU R., EMSEN E., AKSOĞAN O.  
The Eighth International Conference on Computational Structures Technology (CST2006), Las Palmas De Gran Canaria, Spain, 12 - 15 September 2006, pp.749-767
- XIX. **Boşluklu Deprem Perdelerinin Değişik Yöntemlerle Dinamik Analizi**  
EMSEN E., AKSOĞAN O.  
Antalya Yöresinin İnşaat Mühendisliği Sorunları Kongresi, Antalya, Turkey, 22 - 24 September 2005, pp.297-309
- XX. **Elastik Zemine Oturan İki Sıra Boşluklu Deprem Perdelerini Sürekli Bağlantı Yöntemi ile İncelenmesi**  
EMSEN E., AKSOĞAN O.  
XIV. Ulusal Mekanik Kongresi, Hatay, Turkey, 12 - 16 September 2005, pp.367-377
- XXI. **A Comparative Study on the Dynamic Analysis of Multi-Bay Stiffened Coupled Shear Walls with Semi-Rigid Connections**  
AKSOĞAN O., CHOO B. S., BİKÇE M., EMSEN E., RESATOĞLU R.  
7th International Conference on Vibration Problems (ICOVP2005), İstanbul, Turkey, 5 - 09 September 2005, pp.15-20
- XXII. **İki Sıra Boşluklu Perdelerde Sürekli Bağlantı ve Sonlu Elemanlar Yöntemlerine Göre Elde Edilen Sonuçların Karşılaştırılması**  
EMSEN E., ARSLAN H. M., AKSOĞAN O.  
XIII. Ulusal Mekanik Kongresi, Gaziantep, Turkey, 8 - 12 September 2003, pp.349-358
- XXIII. **Free Vibrations of Stiffened Coupled Shear Walls on Elastic Foundation**  
AKSOĞAN O., BİKÇE M., ARSLAN H. M., EMSEN E.  
6th International Conference on Vibration Problems (ICOVP2003), Liberec, Czech Republic, 8 - 12 September 2003, pp.1-6
- XXIV. **Elastik Temele Oturan Güçlendirici Kirişli İki Sıra Boşluklu Deprem Perdelerinin Serbest Titreşim Analizi**  
EMSEN E., ARSLAN H. M., AKSOĞAN O.

## Expert Reports

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I. **2023 Kahramanmaraş depremi sonrası natamam yapıların değerlendirilmesi**

Emsen E., Bikçe M., Erdem M. M.

T.C. Çevre, Şehircilik ve İklim Değişikliği Bakanlığı, pp.2000, Hatay, 2023

## Supported Projects

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I. EMSEN E., TUBITAK Project, Dolgu Duvar - Betonarme Çerçeve Arası Esnek Derzli Yeni Bağlantı Elemanlarının Araştırılması, 2018 - 2021

II. EMSEN E., AKSOĞAN O., REŞATOĞLU R., TÜRKÖZER C. D., Project Supported by Higher Education Institutions, Dynamic Analysis of NonPlanar Coupled Shear Walls with Stiffening Beams Using Continuous Connection Method, 2016 - 2018

III. EMSEN E., TUBITAK Project, Betonarme Perdelerde Bırakılan Bant Tipi Boşluklar Nedeniyle Depremde Oluşan Kısa Kolon Etkisinin İyileştirilmesi, 2011 - 2013

## Activities in Scientific Journals

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I. International Journal of Engineering and Applied Sciences, Committee Member, 2009 - Continues

## Metrics

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Publication: 47

Citation (WoS): 165

Citation (Scopus): 180

H-Index (WoS): 6

H-Index (Scopus): 6