Assoc. Prof. SAVAŞ ÖZTÜRK

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Education

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Turkey 2012 - 2018
Postgraduate, Gebze Technical University, Turkey 2005 - 2009
Undergraduate, Sakarya University, Turkey 2001 - 2005

Foreign Languages

English

Dissertations

Doctorate, Elektronik aygıtlar için n-tipi ve p-tipi Si yongaların üretilmesi karakterizasyonu ve uygulamaları, Dokuz Eylul University, Fen Bilimleri Enstitüsü, 2018
Postgraduate, PEM yakıt hücreleri için bipolar tabaka geliştirilmesi, Gebze Technical University, 2009

Academic Positions

Manisa Celal Bayar University, 2018 - Present
Research Assistant, Izmir Katip Celebi University, 2012 - 2018

Courses

Undergraduate
Metalurji ve Malzeme Mühendisliği Tasarımı I, Undergraduate, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2019-2020
Üretim Metalurjisi, Undergraduate, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2019-2020, 2018-2019
Disiplinler Arası Mühendislik Çalışmaları, Undergraduate, 2023-2024
Metalurji ve Malzeme Mühendisliği Tasarımı II, Undergraduate, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2019-2020
Sosyal Sorumluluk Projesi, Undergraduate, 2022-2023, 2021-2022, 2020-2021, 2019-2020, 2018-2019
Demir Çelik Üretimi, Undergraduate, 2022-2023, 2021-2022, 2020-2021, 2019-2020

İşletmede Mesleki Eğitim, Undergraduate, 2022-2023, 2021-2022
Faz Diyagramları, Undergraduate, 2022-2023, 2021-2022, 2020-2021, 2019-2020, 2018-2019
İş Yeri Uygulama Eğitimi, Undergraduate, 2021-2022, 2020-2021, 2019-2020
MALZEME MÜHENDİSLİĞİ TASARIMI 1, Undergraduate, 2021-2022, 2020-2021, 2019-2020, 2018-2019
MALZEME MÜHENDİSLİĞİ TASARIMI 2, Undergraduate, 2021-2022, 2020-2021, 2019-2020, 2018-2019
Malzeme Mühendisliği Uygulamaları, Undergraduate, 2020-2021, 2019-2020, 2018-2019
FİZİKSEL METALURJİ, Undergraduate, 2018-2019
TAŞINMA MEKANİZMALARI, Undergraduate, 2018-2019

Undergraduate Double Major

YÜKSEK TEKNOLOJİK KAPLAMALAR, Undergraduate Double Major, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2019-2020
İnce Film Teknolojisi, Undergraduate Double Major, 2023-2024, 2022-2023, 2019-2020, 2018-2019

Supervised Theses

ÖZTÜRK S., Polimer matrisli granit kompozit malzemenin takım tezgâhlarında kullanılması, Postgraduate, İ.MAYDA(Student), 2020

Articles

I. **Sustainable geopolymers incorporating PCM-impregnated paper pulp sludge for energy-efficient building applications**
ÖZTÜRK S., SÜTÇÜ M., KÜÇÜKDOĞAN ÖZTÜRK N., Ustaoglu A., Gencel O., Yaprak H., Memis S., SARI A., HEKİMOĞLU G., Erdogmus E., et al.
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II. **Development of lightweight high-alumina cement mortars integrated with n-octadecane/expanded vermiculite for improving building energy efficiency**
Öztürk S., Küçükdoğan Öztürk N., Gencel O., Sütçü M., Ustaoglu A., Sarı A., Hekimoğlu G., Erdogmus E.
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III. **Phase change material incorporated paper pulp sludge/gypsum composite reinforced by slag and fly ash for energy efficient buildings: Solar thermal regulation, embody energy, sustainability index and cost analysis**
KÜÇÜKDOĞAN ÖZTÜRK N., SÜTÇÜ M., ÖZTÜRK S., Yaprak H., Memis S., Gencel O., Ustaoglu A., SARI A., HEKİMOĞLU G., Erdogmus E.
Energy and Buildings, vol.325, 2024 (SCI-Expanded, Scopus)

IV. **Optimization of thermal conductivity and lightweight properties of clay bricks**
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Engineering Science and Technology, an International Journal, vol.48, 2023 (SCI-Expanded, Scopus)

V. **Synergic effect of recycled paper sludge and expanded perlite on the engineering properties of porous clay bricks: A new mathematical modelling approach**
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VI. **Notes on the thermal habitat: Thirteen new records for the freshwater algal flora of Turkey**
ÖZTÜRK S.
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VII. **Influence of tea waste concentration in the physical, mechanical and thermal properties of brick clay mixtures**
ÖZTÜRK S., SÜTÇÜ M., Erdogmus E., Gencel O.
Construction and Building Materials, vol.217, pp.592-599, 2019 (SCI-Expanded, Scopus)

VIII. **Optimal design of the type III hydrogen storage tank for different carbon/epoxy materials by modified differential evolution method**
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IX. **Optimum design of anti-buckling behavior of graphite/epoxy laminated composites by differential evolution and simulated annealing method**
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X. **Prediction of nano etching parameters of silicon wafer for a better energy absorption with the aid of an artificial neural network**
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Solar Energy Materials and Solar Cells, vol.188, pp.234-240, 2018 (SCI-Expanded, Scopus)

XI. **Optimization of lapping processes of silicon wafer for photovoltaic applications**
ÖZTÜRK S., Aydin L., Kucukdogan N., Celik E.
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XII. **Effect of olive mill waste addition on the properties of porous fired clay bricks using Taguchi method**
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Journal of Environmental Management, vol.181, pp.185-192, 2016 (SCI-Expanded, Scopus)

XIII. **Bio composites based on polypropylene filled with waste of camellia sinensis**
KUCUKDOGAN N., ÖZTÜRK S., SÜTÇÜ M.
ARCHIVES OF MATERIALS SCIENCE AND ENGINEERING, vol.79, no.1, pp.12-18, 2016 (Scopus)

XIV. **Cutting-tool recycling process with the zinc-melt method for obtaining thermal-spray feedstock powder (WC-Co)**
Altuncu E., Ustel F., TÜRK A., ÖZTÜRK S., Erdogan G.
Materiali in Tehnologije, vol.47, no.1, pp.115-118, 2013 (SCI-Expanded, Scopus)

XV. **Investigation of wear behaviour of HVOF sprayed WC-Co coatings for automotive parts in different working conditions**
Uzun A., Altuncu E., Ustel F., Turk A., ÖZTÜRK S.
International Journal of Surface Science and Engineering, vol.5, no.2-3, pp.180-192, 2011 (SCI-Expanded, Scopus)

Books

I. **Artificial Intelligence Methodologies In Mechanical Design Optimization: Theory, Applications, And An Interdisciplinary Perspective**
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in: International Reviews, Research and Studies in the Field of Mechanical Engineering, ÖZALP COŞKUN, Editor, Serüven Yayınevi / Serüven Publishing, Ankara, pp.57-76, 2025

II. **Endüstriyel Proses Atıklarından Geopolimer Üretimi**
ÖZTÜRK S.
in: MÜHENDİSLİKTE ÖNCÜ VE ÇAĞDAŞ ÇALIŞMALAR, YİĞİT ENES, ÖZKAYA UMUT, Editor, DUVAR YAYINLAR, İzmir, pp.563-575, 2023

III. **Optimization of Surface Roughness in Slicing Process of Silicon Ingots, Designing Engineering Structures using Stochastic Optimization Methods**
ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N., AYDIN L., SEYHAN A.
in: Designing Engineering Structures using Stochastic Optimization Methods, Aydin Levent , Artem H. Seçil , Oterkus Selda, Editor, CRC PRESS, New York, pp.98-108, 2021

IV. **Progress in Applications of Black Silicon**
ÖZTÜRK S., KAYABAŞI E., KÜÇÜKDOĞAN ÖZTÜRK N., Ayakdaş O.
in: The Most Recent Studies in Science and Art 2, Arapgirlioğlu Hasan, Atik Atilla, Hızıroğlu Salim, ELLIOTT ROBERT

L., Atik Dilek, Editor, Gece Kitaplığı, pp.1866-1882, 2018

V. **Chapter 144. An Evaluation of the Current Status of Pulp and Paper Mill Sludge for Industrial Applications**
KÜÇÜKDOĞAN N., SÜTÇÜ M., ÖZTÜRK S., Savran M.
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VI. **Recent Developments in Energy and Solar Energy**
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VIII. **Chapter 145. Thermal degradation behavior and flame retardancy of organic and inorganic filled polymer composites.**
KÜÇÜKDOĞAN N., SÜTÇÜ M., ÖZTÜRK S., AYDIN L., KAYABAŞI E., Sayı H.
in: The Most Recent Studies in Science and Art (Volume 2), ARAPGİRLİOĞLU HASAN, ATİK HÜSEYİN ATİLLA, ELLIOTT ROBERT L., Hiziroglu Salim, ATİK DİLEK, Editor, Gece Publishing, pp.1854-1865, 2018

IX. **Chapter 143. Thermal conductivity of hetero-phase polymer composites**
KÜÇÜKDOĞAN N., AYDIN L., ÖZTÜRK S., SÜTÇÜ M.
in: The Most Recent Studies in Science and Art. (Volume 2), ARAPGİRLİOĞLU HASAN, ATİK HÜSEYİN ATİLLA, ELLIOTT ROBERT L., Hiziroglu Salim, ATİK DİLEK, Editor, Gece Publishing, pp.1836-1843, 2018

X. **Thermal Conductivity of Hetero-Phase Polymer Composites**
KÜÇÜKDOĞAN ÖZTÜRK N., AYDIN L., ÖZTÜRK S., SÜTÇÜ M.
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XI. **Chapter 146. Progress in Applications of Black Silicon**
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XII. **Thermal Degradation Behavior and Flame Retardancy of Organic and Inorganic Filled Polymer Composites**
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in: The Most Recent Studies in Science and Art 2, Arapgirlioğlu Hasan, Atik Atilla, Hızıroğlu Salim, ELLIOTT ROBERT L., Atik Dilek, Editor, Gece Kitaplığı, pp.1854-1865, 2018

Papers Presented at Peer-Reviewed Scientific Conferences

I. **FORM STABİL ORGANİK/FAZ DEĞİŞTİREN MALZEME KOMPOZİTLERİN ENERJİ VERİMLİLİĞİ VE CO2 EMİSYON PERFORMANSLARININ İNCELENMESİ**
ÖZTÜRK S.
5th INTERNATIONAL CONFERENCE ON SCIENTIFIC STUDIES, Amman, Jordan, 14 - 17 March 2024, pp.350, (Summary Text)

II. **OPTIMIZATION OF HARDNESS AND POROSITY OF HVOF COATINGS**
ÖZTÜRK S.
INTERNATIONAL AZERBAIJAN ACADEMIC RESEARCH CONGRESS, Azerbaijan, 28 - 29 May 2022, (Summary Text)

III. **Optimization of Process Parameters in Deposition of Stainless Steel On Low Carbon Steel by Friction Surfaced Deposit**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., Ayakdaş O., SAVRAN M., AYDIN L.

Hezarfen International Congress of Science, Mathematics and Engineering, İzmir, Turkey, 8 - 10 November 2019, (Full Text)

IV. **A Comparative Study on Crashworthiness Optimization of Vehicle by Using Stochastic Methods**
Gezer E. B., AYDIN L., SAVRAN M., Ayakdaş O., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
Hezarfen International Congress of Science, Mathematics and Engineering, İzmir, Turkey, 8 - 10 November 2019, (Full Text)

V. **Optimization of Electrospinning Parameters in The Production of PCL Scaffold**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., SAVRAN M., Ayakdaş O., AYDIN L.
Hezarfen International Congress of Science, Mathematics and Engineering, İzmir, Turkey, 8 - 10 November 2019, (Full Text)

VI. **OPTIMIZATION OF PRODUCTION PARAMETERS OF VN THIN FILMS USING DIFFERENTIAL EVALUATION AND NELDER-MEAD ALGORITHMS**
KANBUR K., SARGIN F., ÖZTÜRK S.
IV. Uluslararası Bilimsel ve Mesleki Çalışmalar Kongresi, Ankara, Turkey, 7 - 10 November 2019, pp.521-525, (Full Text)

VII. **OPTIMIZATION OF PLASMA SPRAY PARAMETERS OF AL2O3-TIO2 COATINGS USING DIFFERENTIAL EVOLUTION ALGORITHM**
SARGIN F., KANBUR K., ÖZTÜRK S.
IV. Uluslararası Bilimsel ve Mesleki Çalışmalar Kongresi, Ankara, Turkey, 7 - 10 November 2019, pp.516-520, (Full Text)

VIII. **EFFECT OF PRODUCTION PARAMETERS OF WC-COCR COATINGS WITH HVOF SYSTEM**
SARGIN F., KANBUR K., ÖZTÜRK S.
IV. Uluslararası Bilimsel ve Mesleki Çalışmalar Kongresi, Ankara, Turkey, 7 - 10 November 2019, pp.411-415, (Full Text)

IX. **Modelling of Thermal Conductivity of Graphite/Polystyrene Composites**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., AYDIN L.
1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 March 2018, (Summary Text)

X. **Design and Analysis of Interply Hybrid Laminated Composite for Maximum Natural Frequency and Minumum Cost Using Random Search Algorithm and Finite Element Method**
SAVRAN M., AYDIN L., Ayakdaş O., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
4th International Symposium on Composite Materials, İzmir, Turkey, 06 September 2018, (Summary Text)

XI. **Optimum Design of Glass/Epoxy and Flax/Epoxy Laminated Composite Plates for Maximum Frequency Using a Stochastic Optimization Method**
SAVRAN M., AYDIN L., Ayakdaş O., ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N.
1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 March 2018, (Summary Text)

XII. **Grafit/Epoksi Kompozitin Burkulma Karşıtı Davranışının Stokastik Yöntemler Kullanarak Optimize Edilmesi**
Ayvalık A., AYDIN L., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 March 2018, (Summary Text)

XIII. **Stacking Sequences Design of the Cylindrical Composite Pressure Vessel for Different Carbon/ Epoxy Materials by Using Stochastic Optimization Methods**
SAVRAN M., AYDIN L., Ayakdaş O., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
4th International Symposium on Composite Materials, İzmir, Turkey, 06 October 2018, (Summary Text)

XIV. **Theoretical Modeling of Thermal Conductivity of Alumina/Silicone Rubber Composites**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., AYDIN L., Ayakdaş O., SAVRAN M.
4th International Symposium on Composite Materials, İzmir, Turkey, 6 - 08 September 2018, (Summary Text)

XV. **Design and Analysis of Flat Foam Core Sandwich Panels for Maximum Fundamental Frequency**
SAVRAN M., AYDIN L., Ayakdaş O., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.

4th International Symposium on Composite Materials, İzmir, Turkey, 06 October 2018, (Summary Text)

XVI. **Determination of Nano Etching Parameters to Improve Optical Properties of Silicon Solar Cell**
KAYABAŞI E., ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, İzmir, Turkey, 06 October 2018, (Full Text)

XVII. **Optimum Design of Anti-Buckling Behaviour of Graphite/Epoxy Laminated Composite Plate Using Differential Evolution Method**
Akçair M., SAVRAN M., AYDIN L., Ayakdaş O., ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N.
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XVIII. **Çam Fıstığı Kabuklarının Tuğla Üretiminde Gözenek Yapıcı Olarak Kullanılabilirliğinin İncelenmesi**
ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N., SÜTÇÜ M.
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XIX. **Bio-Composites Based on Polypropylene Filled with Waste of Camellia Sinensis**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., SÜTÇÜ M.
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XX. **Fabrication and characterization of fired clay bricks with paper processing waste and expanded perlite addition for building applications.**
ÖKTEN I. S., BUDAK E., ÖZTÜRK S., SÜTÇÜ M.
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XXI. **NaOH İLE YAPILAN SİLİKON WAFER TEKSTÜRLEME İŞLEMİNDE OPTİMUM PROSES PARAMETRELERİNİN DENEYSEL DİZAYN İLE BELİRLENMESİ**
ÖZTÜRK S., ÇELİK E.
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XXII. **Çamfıstığı kabuklarının tuğla üretiminde gözenek yapıcı olarak kullanılabilirliğinin incelenmesi**
ÖZTÜRK S., KÜÇÜKDOĞAN N., SÜTÇÜ M.
16th International Materials Symposium (IMSP'2016), Denizli, Turkey, 12 - 14 October 2016, (Full Text)

XXIII. **Bio composites based on polypropylene filled with waste of camellia sinensis**
KÜÇÜKDOĞAN N., ÖZTÜRK S., SÜTÇÜ M.
16th International Materials Symposium (IMSP'2016), Denizli, Turkey, 12 - 14 October 2016, (Full Text)

XXIV. **Fındıkkabuğu ve evsel çay atığı katkılı yüksek yoğunluklu polietilen kompozitlerin fiziksel ve mekaniksel özelliklerinin belirlenmesi.**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., SÜTÇÜ M., SEVER K.
XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 29 August 2015, pp.795-801, (Full Text)

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KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., SÜTÇÜ M., SEVER K.
XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 August 2015, (Full Text)

XXVI. **An experimental design for the optimization of manufacturing process of porous bricks from olive mill waste**
ÖZTÜRK S., SÜTÇÜ M., YALAMAÇ E., GENÇEL O.
International Porous and Powder Materials Symposium and Exhibition (PPM 2015), İzmir, Turkey, 15 - 18 September 2015, pp.273-277, (Full Text)

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XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015, (Full Text)

XXVIII. **Characterisation of Plasma sprayed HAP coatings on Ti alloys**
ALTUNCU E., ERDOĞAN G., ÖZTÜRK S., ÜSTEL F.
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XXIX. **PEM Tipi Yakıt Hücreleri için Sodyum Bentonit Katkılı Grafit Kompozit Plaka Geliştirilmesi**
AY F., ARSLAN M. A., ÖZTÜRK S., ünveroğlu b., ATA A.
IV. Ulusal Hidrojen Enerjisi Kongresi ve Sergisi, Turkey, 15 - 16 October 2009

XXX. **Design and Optimization of the Type III Pressure Vessel for Different Carbon/Epoxy Materials by using Differential Evolution Method**
Ayakdaş O., AYDIN L., SAVRAN M., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
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Funded Projects

SÜTÇÜ M., ÖZTÜRK S., Project Supported by Higher Education Institutions, BAP Infrastructure, Endüstriyel Atıklardan Genleştirilmiş Kil Agrega Üretilmesi, Faz Değiştirici Malzeme Emdirilerek Agregaların Isıl Enerji Depolama Amaçlı Hafif Kompozit Beton Geliştirilmesinde Kullanımı ve Solar Termo-Regülasyon Performansının İncelenmesi, 2025 - Present
ÖZTÜRK S., YENİ M., TUBITAK Project, 2209A-Atık Cam Çamuru ve Genleştirilmiş Perlit Minerali Kullanılarak Hafif Tuğla Üretimi, 2024 - Continues
ÖZTÜRK S., YENİ M., Project Supported by Higher Education Institutions, Atık Cam Çamuru ve Genleştirilmiş Perlit Kullanılarak Hafif Tuğla Üretimi: Isıl İletkenliğinin Optimizasyonu, 2023 - Continues
ÖZTÜRK S., İREN F., Project Supported by Higher Education Institutions, Cam İşlem Atığı ve Vermikülit Minerali Kullanılarak Hafif Tuğla Üretimi, 2023 - Continues
ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N., GENÇEL ., Project Supported by Higher Education Institutions, BAP Research Project, Genişletilmiş Vermikülit İle Faz Değiştiren Malzeme İçeren Çimento Tabanlı Kompozitlerin Üretilmesi:Isı Depolama Özelliklerinin Optimizasyonu, 2022 - 2024
ÖZTÜRK S., Project Supported by Higher Education Institutions, PEEK Esaslı Biyopolimerin İmplant Yüzeylerine Alev Sprey ile Kaplanması, 2013 - 2016
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Metrics

Publication: 57
Citation (WoS): 87
Citation (Scopus): 369
H-Index (WoS): 5
H-Index (Scopus): 9