Prof. MÜRSEL ALPER

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Education Information

Doctorate, University of Bristol, Physics, United Kingdom 1991 - 1995
Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Yl) (Tezli), Turkey 1985 - 1987
Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1976 - 1982

Foreign Languages

English, C1 Advanced

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2007 - Continues
Associate Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 1999 - 2007
Assistant Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 1996 - 1999
Lecturer, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 1995 - 1996

Advising Theses

ALPER M., Growth of nickel-oxide structures and investigation of capacitive behavior, Postgraduate, M.Durmuş(Student), 2019
ALPER M., Production of nicr thin films by electrochemical method and investigation of the properties, Postgraduate, Z.Gültekin(Student), 2019
ALPER M., Electrodepozition of PPy-co and PPy-coni materials and their magnetic properties, Postgraduate, D.Vatansever(Student), 2017
ALPER M., Electrodeposition and magnetoresistance properties of CoNi/Cu superlattices, Postgraduate, E.Şentürk(Student), 2011
ALPER M., Electro / chemical production of Co / Cu super-empires and investigation of their structural and magnetic

properties, Doctorate, M.Şafak(Student), 2010
ALPER M., The effect of Fe content on Co/Cu multilayers, Postgraduate, A.Tekgül(Student), 2010
ALPER M., Investigation of properties of CoFeNi/Cu superlattices depending on Ni content, Postgraduate, S.Kalsen(Student), 2010
ALPER M., Electrodeposition and characterisation of Co-Cu alloy films, Postgraduate, M.Şafak(Student), 2005
ALPER M., Characterisations of multilayered Ni/Cu nanostructures, Postgraduate, A.Elif(Student), 2004
ALPER M., Structural investigations of magnetic superlattices, Postgraduate, F.Şener(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Polypyrrole-oxalate and polypyrrole-sulfate electrodes for supercapacitor applications**
Haciismailoglu M., Vatansever D., Alper M.
CHEMICAL PAPERS, 2024 (SCI-Expanded)

II. **Synthesis of Di- and Tricationic Surfactants and Comparison of Their Activity on Oxidation of Metal in HCl Media**
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III. **Effect of deposition potential and saccharin addition on structural, magnetic and magnetoresistance characteristics of NiCoFeCu films**
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ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.78, no.10, pp.927-937, 2023 (SCI-Expanded)

IV. **Giant Magnetoresistance of the Electrodeposited FeCoCu/Cu Multilayers: Metal Oxide Formation with NaOH in the Electrolyte**
Tekgül A., Şahin T., Köçkar H., ALPER M.
Acta Physica Polonica A, vol.143, no.3, pp.262-269, 2023 (SCI-Expanded)

V. **Electrical and optical properties of Schottky diodes fabricated by electrodeposition of Ni films on n-GaAs**
HACIİSMAİLOĞLU M. C., AHMETOĞLU M., ŞAFAK HACIİSMAİLOĞLU M., ALPER M., Batmaz T.
Sensors and Actuators A: Physical, vol.347, 2022 (SCI-Expanded)

VI. **Optical design of light guide prisms with surface roughness for automotive tail lights**
Guney E., ALPER M., Haciismailoglu M.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING, vol.234, no.9, pp.2393-2401, 2020 (SCI-Expanded)

VII. **Effect of NiFe layer thickness on properties of NiFe/Cu superlattices electrodeposited on titanium substrate**
KURU H., Aytekin N. C., KÖÇKAR H., Haciismailoglu M., ALPER M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.19, pp.17879-17889, 2019 (SCI-Expanded)

VIII. **Optimization of Fe content in Electrodeposited FeCoCu/Cu magnetic multilayer**
Tekgul A., KÖÇKAR H., ALPER M.
THIN SOLID FILMS, vol.673, pp.7-13, 2019 (SCI-Expanded)

IX. **Electrochemical, Structural and Magnetic Analysis of Electrodeposited CoCu/Cu Multilayers: Influence of Cu Layer Deposition Potential**
Tekgul A., KÖÇKAR H., KURU H., ALPER M., ÜNLÜ C. G.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.3, pp.1896-1903, 2018 (SCI-Expanded)

X. **Electrochemical Deposition of CoCu/Cu Multilayers: Structural and Magnetic Properties as a Function of Non-magnetic Layer Thickness**
Tekgul A., KÖÇKAR H., KURU H., ALPER M.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.73, no.2, pp.127-133,

2018 (SCI-Expanded)

XI. **Giant magnetoresistance (GMR) behavior of electrodeposited NiFe/Cu multilayers: Dependence of non-magnetic and magnetic layer thicknesses**
KURU H., KÖÇKAR H., ALPER M.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.444, pp.132-139, 2017 (SCI-Expanded)

XII. **2D Magnetic Texture Analysis of Co-Cu Films**
BAYIRLI M., KARAAĞAÇ Ö., KÖÇKAR H., ALPER M.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.72, no.5, pp.449-455, 2017 (SCI-Expanded)

XIII. **Facile electrodeposition CoCu/Cu multilayers: deposition potentials for magnetic layers**
Tekgul A., ALPER M., KÖÇKAR H., KURU H.
JOURNAL OF MATERIALS SCIENCE, vol.52, no.6, pp.3368-3374, 2017 (SCI-Expanded)

XIV. **Simple electrodepositing of CoFe/Cu multilayers: Effect of ferromagnetic layer thicknesses**
Tekgul A., ALPER M., KÖÇKAR H.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.421, pp.472-476, 2017 (SCI-Expanded)

XV. **Magnetoresistance behaviour in CoFe/Cu multilayers: thin Cu layer effect**
Tekgul A., ALPER M., KÖÇKAR H.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.27, no.10, pp.10059-10064, 2016 (SCI-Expanded)

XVI. **Scanning of nickel sulfamate concentration in electrodeposition bath used for production of Ni-Co alloys**
KARPUZ A., KÖÇKAR H., ALPER M.
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XVII. **Influence of deposition potential on the electrodeposited Ternary CoFeCu films**
KÖÇKAR H., Ozergin E., KARAAĞAÇ Ö., ALPER M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.24, no.7, pp.2562-2567, 2013 (SCI-Expanded)

XVIII. **Differences observed in properties of ternary NiCoFe films electrodeposited at low and high pH**
KÖÇKAR H., Demirbas O., KURU H., ALPER M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.24, no.6, pp.1961-1965, 2013 (SCI-Expanded)

XIX. **Properties of Electrodeposited CoFeNi/Cu Superlattices: The Effect of CoFeNi and Cu Layers Thicknesses**
Kalsen S., ALPER M., KÖÇKAR H., Haciismailoglu M., KARAAĞAÇ Ö., KURU H.
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XX. **Characterizations of NiCu/Cu Multilayers: Dependence of Nonmagnetic Layer Thickness**
KURU H., KÖÇKAR H., ALPER M.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, no.4, pp.779-784, 2013 (SCI-Expanded)

XXI. **Electrodeposited Co-Ni Films: Electrolyte pH-Property Relationships**
Karpuz A., KÖÇKAR H., ALPER M.
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XXII. **Effect of Co and Cu Layer Thicknesses on Characterization of Electrodeposited Co/Cu Multilayers**
Haciismailoglu M., ALPER M., KÖÇKAR H.
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XXIII. **Surface Morphology, Structural and Magnetic Properties of Electrodeposited NiFeCu/Cu Films**
BAYKUL M. C., Sarac U., ALPER M.
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XXIV. **Influence of Co:Cu ratio on properties of Co-Cu films deposited at different conditions**
KARAAĞAÇ Ö., KÖÇKAR H., ALPER M., Haciismailoglu M.
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XXV. **Effect of film thickness on properties of electrodeposited Ni-Co films**
Karpuz A., KÖÇKAR H., ALPER M.
APPLIED SURFACE SCIENCE, vol.258, no.12, pp.5046-5051, 2012 (SCI-Expanded)

XXVI. **Electrodeposited Ni-Co films from electrolytes with different Co contents**
Karpuz A., KÖÇKAR H., ALPER M., KARAAĞAÇ Ö., Haciismailoglu M.
APPLIED SURFACE SCIENCE, vol.258, no.8, pp.4005-4010, 2012 (SCI-Expanded)

XXVII. **The electrical characterization of electrodeposited Ni thin film on silicon: Schottky Barrier diodes**
AHMETOĞLU M., Tekgul A., ALPER M., Kucur B.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.6, pp.304-306, 2012 (SCI-Expanded)

XXVIII. **Effect of electrolyte pH and Cu concentration on microstructure of electrodeposited Ni-Cu alloy films**
Haciismailoglu M., ALPER M.
SURFACE & COATINGS TECHNOLOGY, vol.206, no.6, pp.1430-1438, 2011 (SCI-Expanded)

XXIX. **The effect of different chemical compositions caused by the variation of deposition potential on properties of Ni-Co films**
Karpuz A., KÖÇKAR H., ALPER M.
APPLIED SURFACE SCIENCE, vol.257, no.8, pp.3632-3635, 2011 (SCI-Expanded)

XXX. **Electrodeposited Cobalt Films: Alteration Caused by the Electrolyte pH**
KARAAĞAÇ Ö., KÖÇKAR H., ALPER M.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.24, pp.801-804, 2011 (SCI-Expanded)

XXXI. **Composition Dependence of Structural and Magnetic Properties of Electrodeposited Co-Cu Films**
KARAAĞAÇ Ö., KÖÇKAR H., ALPER M.
IEEE TRANSACTIONS ON MAGNETICS, vol.46, no.12, pp.3973-3977, 2010 (SCI-Expanded)

XXXII. **The Effect of Fe Content in Electrodeposited CoFe/Cu Multilayers on Structural, Magnetic and Magnetoresistance Characterizations**
Tekgul A., ALPER M., KÖÇKAR H., ŞAFAK HACIİSMAİLOĞLU M., KARAAĞAÇ Ö.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.10, no.11, pp.7783-7786, 2010 (SCI-Expanded)

XXXIII. **Co-Fe Films: Effect of Fe Content on Their Properties**
KÖÇKAR H., ALPER M., Sahin T., Haciismailoglu M. S.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.10, no.11, pp.7639-7642, 2010 (SCI-Expanded)

XXXIV. **Contribution of electrolyte pH and deposition potentials to the magnetic anisotropy of electrodeposited nickel films**
KÖÇKAR H., ALPER M., KARAAĞAÇ Ö., NAKİBOĞLU N., BAYKUL M. C.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.322, pp.1088-1091, 2010 (SCI-Expanded)

XXXV. **Characterisations of CoCu films electrodeposited at different cathode potentials**
KARAAĞAÇ Ö., ALPER M., KÖÇKAR H.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.322, pp.1098-1101, 2010 (SCI-Expanded)

XXXVI. **Role of electrolyte pH on structural and magnetic properties of Co-Fe films**
KÖÇKAR H., ALPER M., Sahin T., KARAAĞAÇ Ö.
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XXXVII. **Determination of Texture Orientation Related Magnetic Properties of Nickel-Cobalt Films**
BAYIRLI M., KÖÇKAR H., ALPER M., Cokturen E.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.65, no.4, pp.342-346, 2010 (SCI-Expanded)

XXXVIII. **Properties of Co-Fe Films: Dependence of Cathode Potentials**
ALPER M., KÖÇKAR H., Sahin T., KARAAĞAÇ Ö.
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XXXIX. **A new example of the diffusion-limited aggregation: Ni-Cu film patterns**
KÖÇKAR H., BAYIRLI M., ALPER M.
APPLIED SURFACE SCIENCE, vol.256, no.9, pp.2995-2999, 2010 (SCI-Expanded)

XL. **Electrochemical production of Fe-Cu films: determination of the deposition potentials and their effect on microstructural and magnetic properties**
Karpuz A., KÖÇKAR H., ALPER M.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol.48, no.3, 2009 (SCI-Expanded)

XLI. **Influence of Deposition Parameters of Novel Vacuum Coating Plant on Evaporated Ni60Fe40 and Ni80Fe20 Films**
KÖÇKAR H., Williams P. I., ALPER M., KARAAĞAÇ Ö., Meydan T.
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XLII. **The Role of Cu Content on Properties of Electrodeposited Fe-Cu Films**
Karpuz A., ALPER M., KÖÇKAR H.
SENSOR LETTERS, vol.7, no.3, pp.255-258, 2009 (SCI-Expanded)

XLIII. **Electrical properties of n-Si /Cu Schottky diodes formed by electrodeposition**
AHMETOĞLU M., ALPER M., Safak M., Erturk K., Gurpinar B., KOÇAK F., HACIİSMAİLOĞLU M. C.
Journal of Optoelectronics and Advanced Materials, vol.9, no.4, pp.818-821, 2007 (SCI-Expanded)

XLIV. **Magnetic anisotropy and its thickness dependence for NiFe alloy films electrodeposited on polycrystalline Cu substrates**
KÖÇKAR H., ALPER M., KURU H., Meydan T.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.304, no.2, 2006 (SCI-Expanded)

Articles Published in Other Journals

I. **Production of ZnO thin films used in solar cell with a sol-gel homemade dip coater technique and investigated of their structural, morphological and optical properties**
GÜLTEKİN Z., AKAY C., Gültekin N., ALPER M.
Eurasian Journal of Physics and Functional Materials, vol.7, no.4, pp.213-220, 2023 (Scopus)

II. **Design and Construction of Home-Made Spin Coater for OLED Production**
Gültekin Z., Alper M., Akay C., Hacıismailoğlu M. C.
International Journal of Electronics and Device Physics, vol.5, no.1, pp.0-11, 2021 (Peer-Reviewed Journal)

III. **PROJECTION OF SCIENCES ONTO TEXTILE AND FASHION:NANO-TECHNOLOGY AND CHARGEABLE FABRIC EXAMPLE - PART II**
iyidoğan d., akdemir ö., jitka e., kaplan g., çavuş m. b., ŞAFAK HACIİSMAİLOĞLU M., ALPER M., çobanoğlu ö.
Tekstil ve Mühendis, vol.26, no.113, pp.71-80, 2019 (Scopus)

Books & Book Chapters

I. **position of Multilayered Nanostructures**
ALPER M.
in: Nanostructured Magnetic Materials and Their Applications, Donglu Shi, Bekir Aktas, Ladisvlav Pust, Faik Mikailov, Editor, Springer Berlin Heidelberg, pp.111-128, 2002

Refereed Congress / Symposium Publications in Proceedings

I. **Electrodeposition of p-type Copper-oxide films from an alkaline solution**
SUBAŞI E., HACIİSMAİLOĞLU M. C., ŞAFAK HACIİSMAİLOĞLU M., ALPER M.
8th International conference on materials science and nanotechnology for next generation (MSNG2021), Elazığ, Turkey, 14 July 2021

II. **Structural properties of silicon nanowires produced by metal-assisted chemical etching method**
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III. **THE ELECTRİCAL AND OPTİCAL CHARACTERİZATİON OF ELECTRODEPOSİTED Ni /n-GaAs SCHOTTKY BARRİER DİODES**
Batmaz T., Kirezli B., Şafak Hacıismailoğlu M., Alper M., Ahmetoğlu M.
rd International Conference on Organic Electronic Material Technologies (OEMT2018), Kırklareli, Turkey, 20 - 22 September 2018

IV. **Electrodeposition of CoNi-polypyrrole composite films and their magnetic properties**
VATANSEVER D., ŞAFAK HACIİSMAİLOĞLU M., ALPER M., ŞARLAR K., KÜÇÜK İ.
5th International conference on materials science and nanotechnology for next generation (MSNG2018, 4 - 06 October 2018

V. **The role of polypyrrole layer on titanium substrate for electrodeposition of cobalt**
VATANSEVER D., ŞAFAK HACIİSMAİLOĞLU M., ALPER M., KURU H., KÖÇKAR H.
5th International conference on materials science and nanotechnology for next generation (MSNG2018, 4 - 06 October 2018

VI. **Electrochemical deposition of Cobalt-Polypyrole composite films by changing Cobalt deposition potential**
Vatansever D., ŞAFAK HACIİSMAİLOĞLU M., ALPER M., KÖÇKAR H.
Turkish Physical Society 34th International Physics Congress, Bodrum, Turkey, 5 - 09 September 2018

VII. **Electrochemical deposition of Cobalt-Polypyrrole composite films by changing Cobalt deposition potential**
ŞAFAK HACIİSMAİLOĞLU M., ALPER M., KÖÇKAR H.
34th Turkish Physical Society International Physical Conference, 5 - 09 September 2018

VIII. **Structural, Magnetic and Magnetoresistance Properties of NiFe/Cu Superlattices Electrodeposited on Titanium Substrate Depending on Ni Fe Layer Thickness**
KURU H., Aytekin N., ŞAFAK HACIİSMAİLOĞLU M., ALPER M., KÖÇKAR H.
Joint European Magnetic Symposia, JEMS'09, 3 - 07 September 2018

IX. **Electrochemical deposition of CoNi-PPy composite structures by changing Co concentration**
ŞAFAK HACIİSMAİLOĞLU M., ALPER M., KÖÇKAR H.
12th International Workshop On Electrodeposited Nanostructures, 16 - 18 March 2017

X. **THE IMPACT of MAGNETIC LAYER DEPOSITION POTENTIAL OF THE ELECTRODEPOSITED COCU/MULTILAYERS**
TEKGÜL A., KÖÇKAR H., KURU H., ALPER M.
TFD 33. uluslararası Fizik Kongresi, 6 - 10 September 2017

XI. **Electrochemical deposition of CoNı-PPy composite structures by changing Co concentration**
Vatansever D., ŞAFAK HACIİSMAİLOĞLU M., ALPER M., KÖÇKAR H.
12th International Workshop onElectrodeposited Nanostrures, Sofya, Bulgaria, 16 - 18 March 2017

XII. **Structural and optical properties of electrodeposited NiO thin films**
Epiri Ç., ŞAFAK HACIİSMAİLOĞLU M., ALPER M., HACIİSMAİLOĞLU M. C.
12th INTERNATIONAL WORKSHOPON ELECTRODEPOSITED NANOSTRUCTURES, Sofija, Bulgaria, 16 - 18 March 2017

XIII. **Otomotiv Dış Aydınlatma Sistemleri İçin Işık Tüplerinin Optik Tasarımı ve Prototip İmalatı**
ŞENTÜRK GÜNEY E., ALPER M., ŞAFAK HACIİSMAİLOĞLU M., IŞIK M., TURŞUCULAR E.
10.ULUSALAYDINLATMAKONGRESİ, Turkey, 16 - 18 April 2015

XIV. **Elektrodepozisyon İle Üretilen NiO İnce Filmlerin Yapısal ve Optik Karakterizasyonu Otomotiv Dış Aydınlatmada İnce Film Uygulaması**
TÜRE Ç., ŞAFAK HACIİSMAİLOĞLU M., ALPER M.
10.ULUSALAYDINLATMAKONGRESİ, Turkey, 16 - 18 April 2015

XV. **The effect of magnetic layer thickness on electrodeposited CoFe Cu multilayers GMRoscillations**
TEKGÜL A., ALPER M., KÖÇKAR H.
9th International Conference on Magneticand Superconducting Materials, 30 April - 03 May 2015

XVI. **GMR oscillations in electrodeposited CoFe Cu multilayers Influence of Cu layer thickness**
TEKGÜL A., ALPER M., KÖÇKAR H.
9th International Conference on Magneticand Superconducting Materials, 30 April - 03 May 2015

XVII. **Electrodeposition And Characterization Of Cocu cu Multilayers**
ŞAFAK HACIİSMAİLOĞLU M., ALPER M., KÖÇKAR H.
5th International Advances in Applied Physics and Materials Science Congress & Exhibition (APMAS2015), 16 - 19 April 2015

XVIII. **Deposition parameters dependence of properties of Co Mn electrodeposition films**
KARPUZ A., KÖÇKAR H., ALPER M., KARAAĞAÇ Ö., ŞAFAK HACIİSMAİLOĞLU M.
9th international conferences on material science and enginering, 5 - 07 March 2015

XIX. **Gazll' Saya~lann Bir Benzeri Olarak Avalanche Fotodiyotlar**
Tapan İ., AKAY C., ALPER M.
TFD 18. Fizik Kongresi, Adana, Turkey, 25 October 1999 - 28 October 2010

XX. **Nötron Akısı Altında Avalanche Fotodiyot Karakteristiklerinin Değişimlerinin İncelenmesi**
Tapan İ., AKAY C., ALPER M.
TFD 17. Fizik Kongresi, Antalya, Turkey, 27 - 31 October 1998

Supported Projects

Tapan İ., Alper M., TUBITAK Project, Electrodeposition of Nanostructured Materials and Their Magnetotransport Characterization, 2005 - 2006

Scientific Refereeing

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, SCI Journal, June 2021

Metrics

Publication: 87
Citation (WoS): 710
Citation (Scopus): 740
H-Index (WoS): 16
H-Index (Scopus): 16

Non Academic Experience

Macaristan Bilimler Akademisi-Araştırma Laboratuvarı
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University of Bristol