



BİTAM
BİLİM VE TEKNOLOJİ ARAŞTIRMA VE
UYGULAMA MERKEZİ

www.erbakan.edu.tr/bitam



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UYGULAMA MERKEZİ

Researcher Information



BITAM





NECMETTİN ERBAKAN
ÜNİVERSİTESİ



BİLİM VE TEKNOLOJİ
ARAŞTIRMA VE UYGULAMA MERKEZİ



SCIENCE TECHNOLOGY
RESEARCH AND APPLICATION CENTER



Prof Dr. Cem ZORLU
Rektör / Rector



Değerli Araştırmacılar,

İnsanlığın ortak mirası olan bilim, geçmişte beşerin kendini ve kâinatı tanıma gayretiyle ürettiği fikirler ve bu fikirlerin geliştirdiği koşulların tesiri altında yapılan zorlu çalışmalarla yoğrulmuştur. Adım adım ilerletilerek günümüz dünyasına aktarılan bu birikimler, şüphesiz ki gelecekte de insanlığın ışığı olmaya devam edecektir. İnsanlığa faydalı olma gayesiyle yürütülen azimli, bilinçli ve sorumlu çalışmaları desteklemek, gerçekleştirilmesi için gerekli koşulları sağlamak başta ülkemiz olmak üzere, tüm dünya ülkelerinin geleceği için büyük önem taşımaktadır.

Bilim ve Teknoloji Araştırma ve Uygulama Merkezini (BITAM) güzide bilim yuvası üniversitemizin, kamu kurumlarımızın ve sanayimizin hizmetine sunuyor, gelecek nesillere aktarılacak birikimin niteliğini artırarak yeni ufuklar açacağına inanıyorum.

Dear Researchers,

Science, the common heritage of humanity, has been shaped by the ideas produced by human beings with the effort of recognizing oneself and the universe, and the hard work done under the influence of the conditions developed by these ideas. This process will build up the knowledge step by step and transferred to today's world, it will undoubtedly continue to be the light of humanity in the future too. It is of great importance for the future of all countries in the world, especially in our country, to support the purposeful, conscious, and responsible works carried out with the aim of being beneficial to humanity and to provide the necessary conditions for their fulfillment.

Science and Technology Research and Application Center (BITAM) is dedicated to our universities, public institutions, and industry, and I believe that it will open new horizons by increasing the quality of the accumulation of knowledge to be passed on to future generations.



Prof. Dr. Ali KAHRAMAN

Rektör Yardımcısı / Vice Rector



Değerli Bilim İnsanları,

Hiçbir düşünce, hiçbir fikir, hiçbir kültür bütün insanlar tarafından kabul edilerek dünyada hakimiyet sürmemiştir. Her düşünce, fikir ve kültüre farklı alternatif ve itirazlar ortaya çıkmıştır. Ama bir kültür ve bir düşünce var ki, dünyadaki her insan tarafından kabul edilmiş, herkes tarafından benimsenmiş ve herkesi peşinde sürüklemiştir. O da bilimsel düşüncedir.

Bilimsel düşünce, çalışmalarıyla medeniyet tarihine yön veren ecdadımızın yetiştirdiği âlimlerin bizlere bıraktığı önemli miraslardan birisidir. Bilime hak ettiği değeri vererek yapacağımız her çalışma, üzerinde yaşadığımız vatanımız, aziz milletimiz ve insanlık için bilim insanları olarak en önde gelen görevimiz olacaktır.

Üniversitelerin, kamu kurum ve kuruluşlarının yanı sıra sanayi kuruluşlarının uygulamalı ve disiplinlerarası alanlardaki araştırma geliştirme faaliyetlerini gerçekleştirmek ve insanlığın ortak mirası olan bilime katkı sunmak amacıyla kurulan Necmettin Erbakan Üniversitesi Bilim ve Teknoloji Araştırma ve Uygulama Merkezinin (BITAM) Üniversitemizdeki tüm akademisyenlerin çalışmalarına da katkı sağlaması umuduyla...

Dear Scientists,

No thought, no idea, no culture has ever prevailed in the world by being accepted by all people. Different alternatives and objections have emerged for each thought, idea, and culture. However, there is a unique culture and a thought, which has been accepted, adopted, and trailed by every person in the world, and that is called 'scientific thought'.

Scientific thought is one of the important legacies left to us by the scholars raised by our ancestors, who guided the history of civilization through their studies. Every research applied by caring about the value of science will be our foremost duty as scientists for our homeland, valuable nation, and humanity.

Necmettin Erbakan University Science and Technology Research and Application Center (BITAM) was established to carry out research and development activities of universities, public institutions and organizations, and also industries in the applied and interdisciplinary fields and to contribute in a vast field of science, which is the common heritage of humanity. I hope that BITAM will contribute to the studies of all academicians in our university...



NECMETTİN ERBAKAN
ÜNİVERSİTESİ

BİTAM
BİLİM VE TEKNOLOJİ ARAŞTIRMA VE
UYGULAMA MERKEZİ

Değerli Araştırmacılar,

Evrensel değerler çerçevesinde gelecek nesillere aktaracak olduğunuz bilgi birikimleriniz için bir eğitim merkezi olmayı amaçlayan Necmettin Erbakan Üniversitesi Bilim ve Teknoloji Araştırma ve Uygulama Merkezimiz (BİTAM) güncel ve yüksek teknolojiye sahip cihazlarla donatılmıştır. Ulusal kaynaklarla teknolojik, özgün ve milli ürünlerin ortaya çıkmasında gerekli olan çok sayıda analiz birimimizde gerçekleştirilebilmektedir. Ayrıca, son yıllarda ülkemizin ihtiyaçları doğrultusunda belirlenmiş olan çok sayıda tematik alan laboratuvarlarını da bünyesinde barındıran laboratuvarımız 3000 m² kapalı alanda hizmet vermektedir.

Milletimize daha güzel bir gelecek inşa etmeyi kendisine görev edinmiş siz değerli araştırmacılara ve üreticilerimize merkezimizin katkı sağlayacağı inancındayız. Farklı disiplinlerdeki araştırmacıların bir arada bulunduğu birimimizde sizlerle birlikte başaracağımıza inanıyoruz.

BİTAM

Dear Researchers,

Necmettin Erbakan University Science and Technology Research and Application Center (BITAM), which aims to be a training center for your knowledge that you will transfer to future generations within the framework of universal values, is equipped with up-to-date and high-tech devices. Numerous analysis required for the emergence of technological, unique and national products with national resources can be performed in our unit. In addition, our laboratory, which includes many thematic area laboratories determined in line with the needs of our country in recent years, serves in a closed area of 3000 m².

We believe that our center will contribute to our valuable researchers and producers who have taken it upon themselves to build a better future for our nation. We believe that we will succeed with you in our unit where researchers from different disciplines are together.

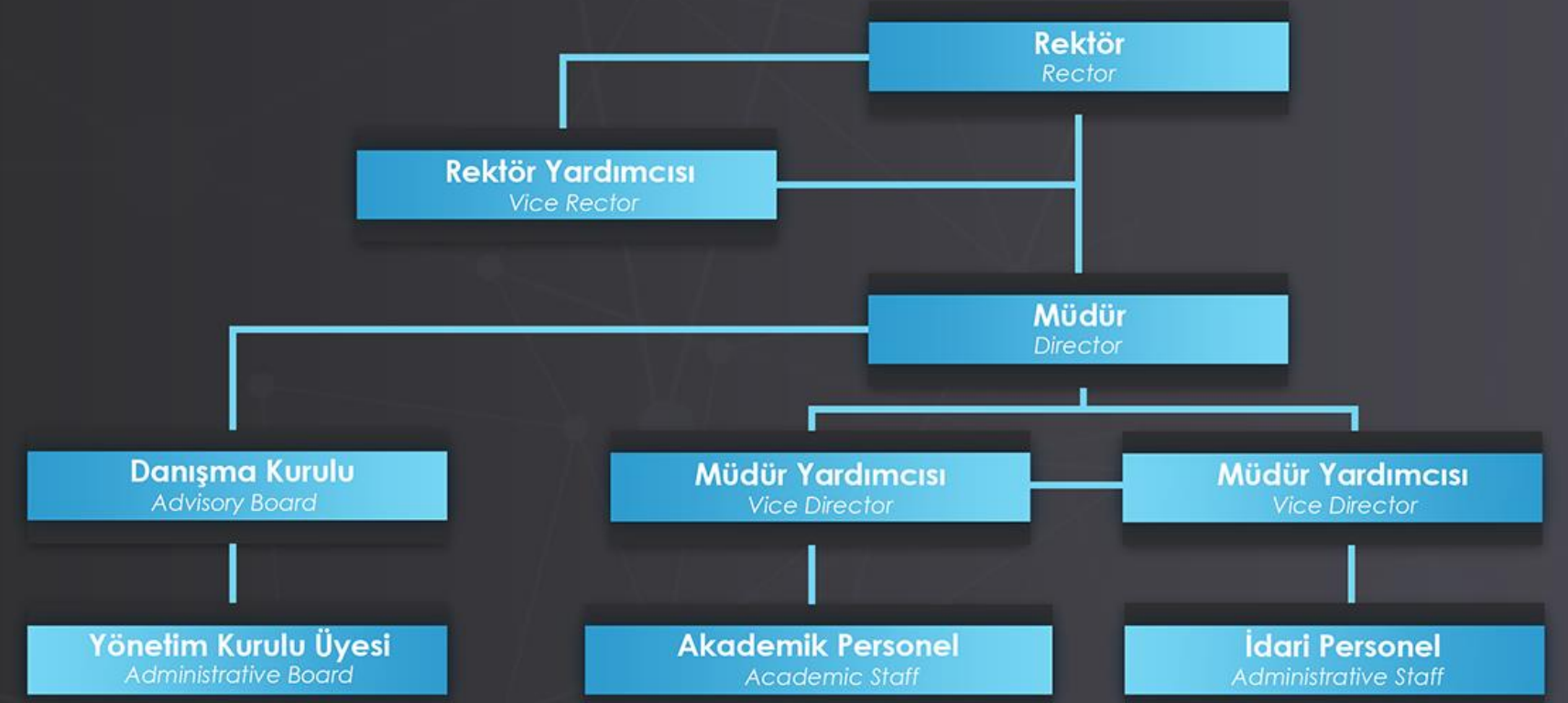
BİTAM



BITAM
Bilim ve Teknoloji
Araştırma ve Uygulama
Merkezi



ORGANİZASYON ŞEMASI ORGANIZATION CHART



BIOMATERIALS & BIOTECHNOLOGY

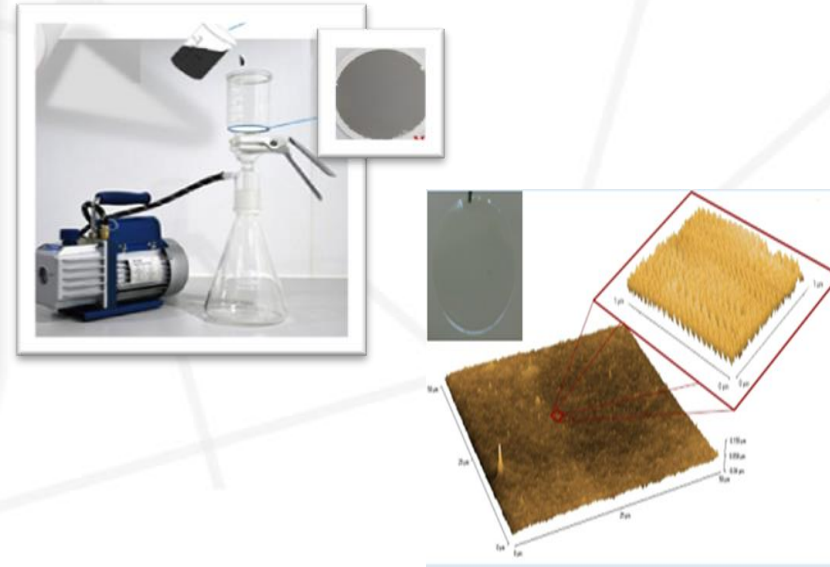
Researcher Information

Personel Information

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Phone :
Official Web Page
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Research Area

1. Composite materials
2. Polymer and composite membranes
3. Chemosensors



Researcher Information

Important Projects

1. Preparation of rGO/ B-CD Membranes, Characterization and Determination of Flux Performance
2. Synthesis of Conjugated Polymers Containing Different Amounts of Pyridine Derivatives and Solar Cell Applications (BİDEB)

Academic Career & Education

1

Bachelors

Selçuk University,
Faculty of Education,
Department of Chemical
Education

2

Master

Selçuk University,
Graduate School of Natural
and Applied Sciences,
Department of Chemistry
Education

3

Doctorate

Selçuk University,
The Graduate School of
Natural and Applied
Science, Department of
Chemistry



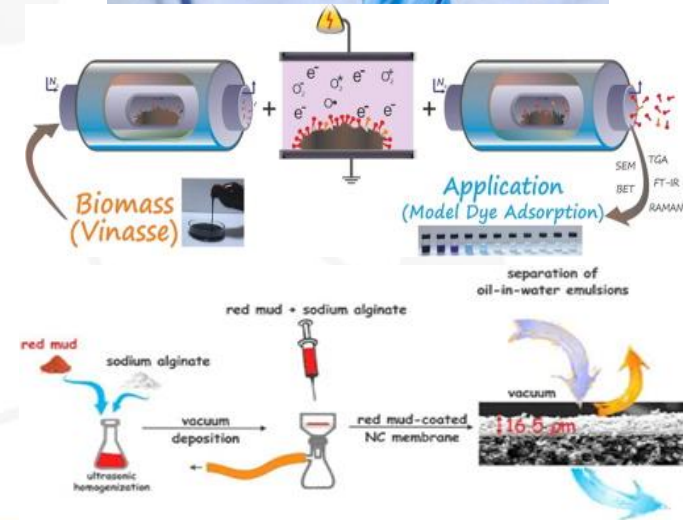
Researcher Information

Personel Information

(Title) Name Surname : Prof. Dr. Ali TOR
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Research Area

1. Carbon based materials and their use in water treatment
2. Membrane processes
3. Waste reusing



BIOMATERIALS AND BIOTECHNOLOGY



Researcher Information

Important Projects

1. Investigation on the ion transport properties of activated composite membranes, The Scientific and Technological Research Council of Turkey (TUBITAK-104Y394), 2009.
2. Enhanced chitin-based biosorbents for drinking water purification, ChitoClean, Project No: 315087, European Commission, Research Executive Agency, SME Actions, Researcher, 2015.
3. Preparation and characterization of "red mud-polysulfone" composite capsule and investigation on its potential for removal of fluoride from water, Necmettin Erbakan University Scientific Research Project (BAP-151219016), 2017.

Academic Career & Education

1

Bachelors

Selçuk University,
Department of Environmental
Engineering (1998).

2

Master

Selçuk University,
The Graduate School of
Natural and Applied Science,
Department of Environmental
Engineering (2000).

3

Doctorate

Selçuk University,
The Graduate School of
Natural and Applied Science,
Department of Chemistry
(2004).

BIOMATERIALS AND BIOTECHNOLOGY

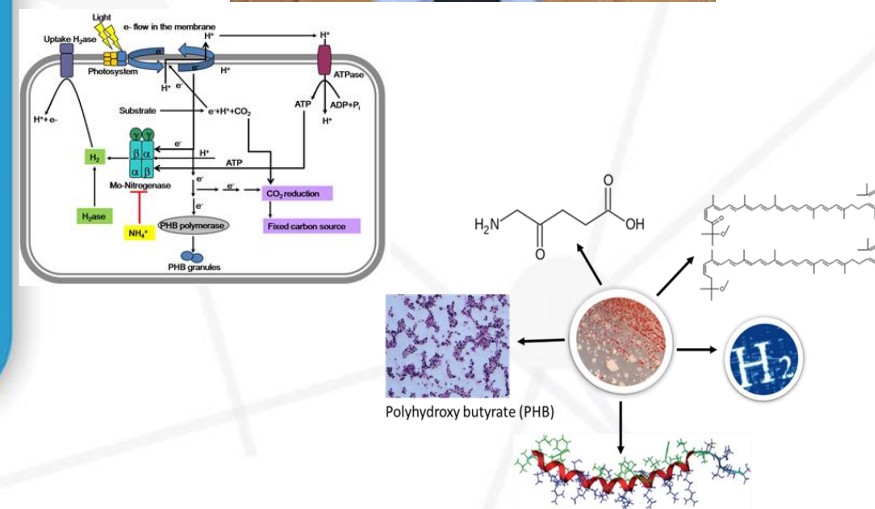


Personel Information

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Research Area

1. Recombinant peptide/protein production
2. Microbial Biopolymer production
3. Genomics-Metagenomics
4. Biotechnological applications of photosynthetic bacteria



Important Projects

1. Production and Purification of Human LL-37 Peptide in Rhodobacter sphaeroides and Testing of Antimicrobial and Wound Healing Activities of the Produced Peptide
2. Production of Polyhydroxybutyrate (PHB) by Rhodobacter sphaeroides O.U. 001, Rhodopseudomonas palustris 7850 and Cupriavidus necator H16 Grown in Acetate Medium and Characterization of Produced Polymers
3. The Production of 5-Aminolevulinic Acid (5-ALA) and Biohydrogen Using Molasses in a Biorefinery Concept

Academic Career & Education

1

Bachelors

Middle East Technical University
 Dept. of Biology

2

Master

Middle East Technical University
 Dept. of Biotechnology

3

Doctorate

Middle East Technical University
 Dept. of Biotechnology

Personel Information

(Title) Name Surname : Assoc. Prof. Aytekin UZUNOGLU

Department : Metallurgical and Materials Engineering

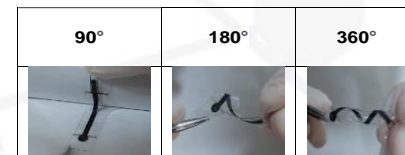
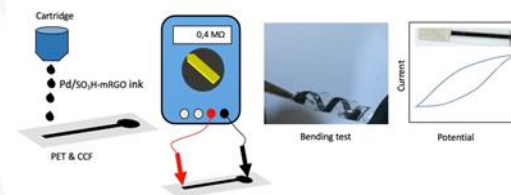
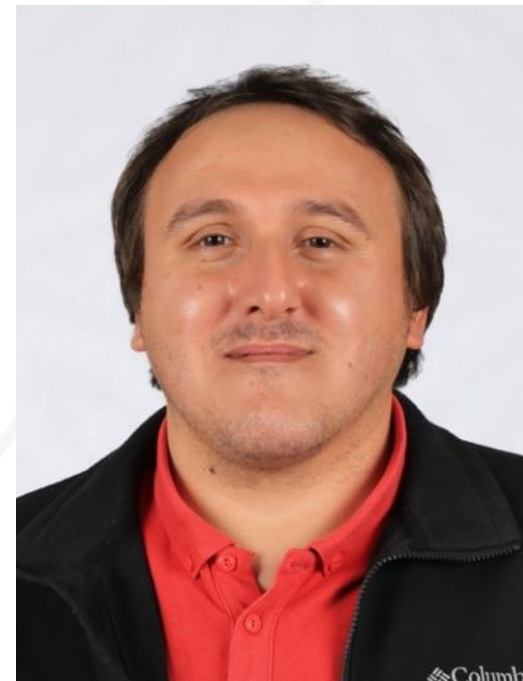
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Research Area

1. Electrochemical (bio)sensors, 2. Flexible electrodes/(bio)sensors, 3. Printed Electrodes, 4. Metal organic frameworks, 5. Supercapacitors, 6. 2-dimensional (2D) electrocatalysts for energy conversion and storage, 7. Field effect transistor (FET)-based biosensors, 8. Cryo transmission electron microscope (Cryo-TEM)



Bending of flexible sensors
Graphene-based flexible sensors

Important Projects

1. Development of Flexible Electrochemical Sensors Using Novel Ink Formulations Composed of N-doped Holey Graphene and its Derivatives (TUBITAK), PI
2. Development of Novel, Low-cost Disposable Flexible Electrodes by the Use of Carbon-based Nanomaterials and Their Applications in Electrochemical Sensing (TUBITAK), PI
3. Regenerative and Restorative Medical Research and Applications (TUBITAK): (Construction of carbon-based flexible biosensors for early detection of small cell lung cancer)

Academic Career & Education

1

Bachelors

Gebze Technical University
(TURKEY),

Material Science and
Engineering, 2009

2

Master

Gebze Technical University
(TURKEY),

Material Science and
Engineering, 2011

3

Doctorate

Purdue University (West
Lafayette, USA),

Materials Engineering, 2016

Personel Information

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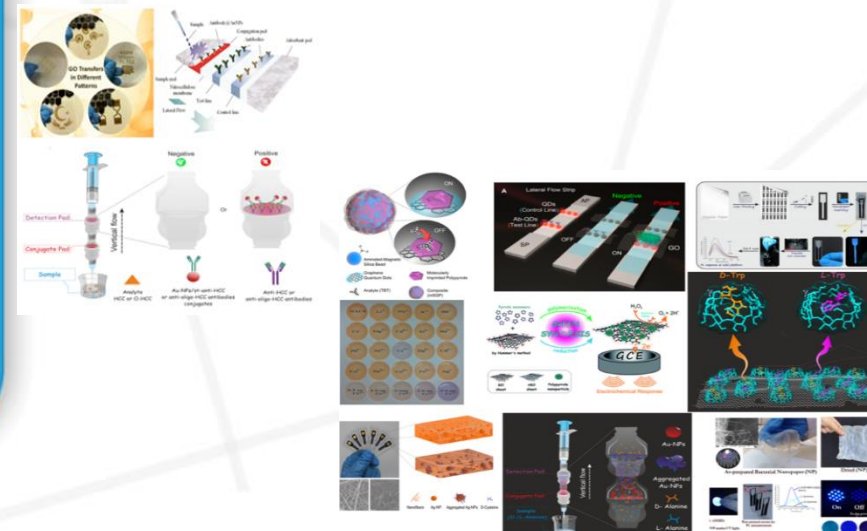
Phone : 90 544 779 6636

Official Web Page

<https://www.erbakan.edu.tr/en/personel/4299/erhan-zor>

Research Area

1. Chemistry, 2. POC Assays/Biomedical Diagnostics, 3. NanoBiosensors, 4. NanoBioelectronics, 5. Chiral Sensors, 6. Chiral Nanomaterials, 7. Graphene and Related Materials



Important Projects

1. Nanobiosensor for rapid detection of neurotoxic human cystatin C oligomers (NCBR-POLAND/ TÜBİTAK-TÜRKİYE- Bilateral Cooperation - 117Z009).
2. Development of Lateral Flow Assay for Leptin Detection (TÜBİTAK/1001-219Z054).
3. Development of Iridium Oxide Nanoparticle Based Optical Biosensor for Parathyroid Hormone Determination (NEU-BAP).
4. Preparation and characterization of graphene-based flexible and conductive patterns by a facile and practical method (NEU-BAP).
5. Fabrication of Enantioselective Graphene and Carbon Quantum Dots for Determination of Chiral Compounds by Fluorometric Method (TÜBİTAK/1001-215Z222).

Academic Career & Education

1

Bachelors

Selçuk University,
Chemistry Education

2

Master

Selçuk University,
Institute of Educational
Sciences, Chemistry
Visiting Researcher (MSc -
COST/STSM): Vilnius University,
Faculty of Chemistry,
Nanotechnas-2011

3

Doctorate

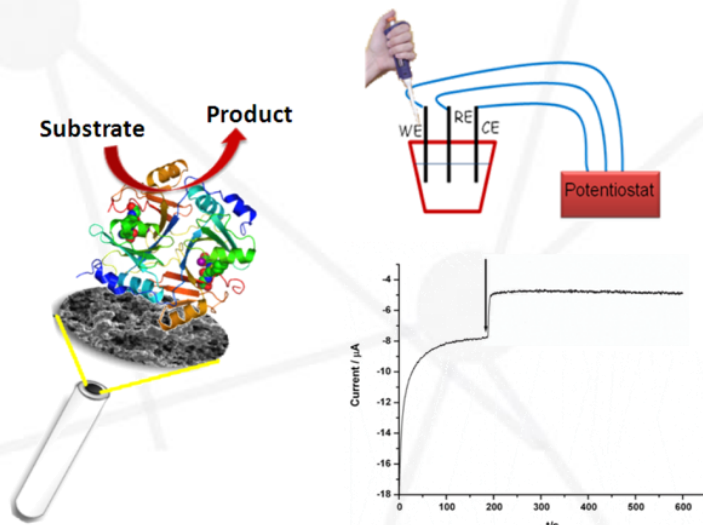
Selçuk University, Institute of
Sciences, Chemistry
Visiting Researcher (Doctorate):
Vilnius University, Faculty of
Chemistry, Nanotechnas-2013,
Visiting Researcher (PhD):
Universitat Autònoma de
Barcelona (UAB), Catalan Institute
of Nanoscience and
Nanotechnology (2014-2015)

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Research Area

1. Biosensors
2. Biosensing technologies
3. Conjugated polymers and their applications
4. Nanomaterials (carbon nanotubes, fullerenols, gold nanoparticles, dendrimers, quantum dots, etc.)
5. Surface design and characterization for sensing applications



Important Projects

1. "Innovative Fullerenol-Hydrogels Based Nanomaterials For Health Diagnostic And Care Applications", M-ERA.NET-122N510, 2022- Continues, Project Manager
2. "Synthesis of Functional Fullerenol and Design of Functional Fullerenol Based Electrochemical Nanobiosensor to Investigate Inhibition Effects of Anti-Alzheimer's Active Drug Pyridostigmine on Acetylcholinesterase Enzyme", TÜBİTAK-1002, Project No: 121Z719, 2021- Continues, Project Manager
3. "Fullerene-Based Nanoenzyme: A New Approach for Alzheimer's Diagnosis", UNESCO-LOREAL project, 2021- Continues, Project Manager
4. "Design and Application of Electrochemical and Optical Surfaces for Lab-On-Chip Applications", NEÜ, Thematic areas research project, Project No: 221719003, 2022- Continues, Project Manager

Academic Career & Education

1

Bachelors

Muğla University,
 Chemistry, 2009

2

Master

Kahramanmaraş Sütçü İmam
 University (KSÜ),
 Biochemistry, 2012

3

Doctorate

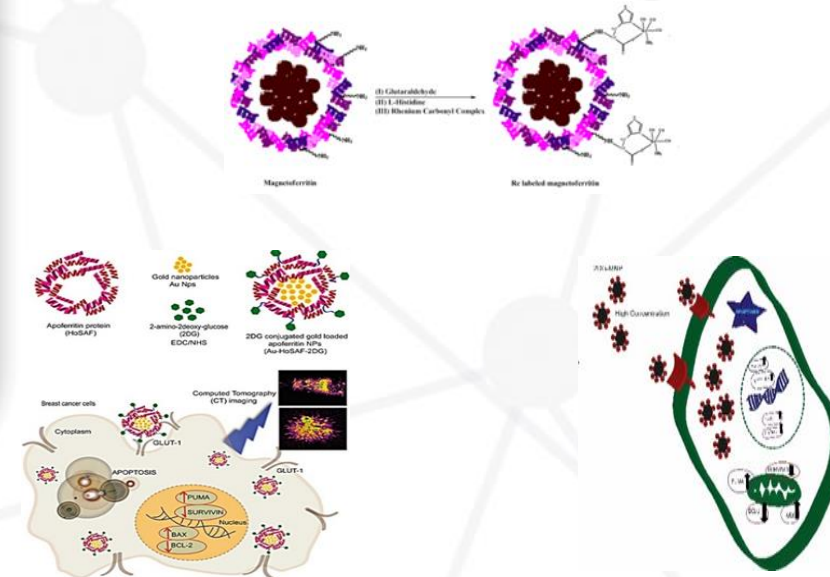
Middle East Technical University
 (METU),
 Chemistry, 2018

Personel Information

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<https://erbakan.edu.tr/molekulerbiyolojiivegenetik>

Research Area

1. Nanoparticle synthesis and characterization
2. Synthesis of biomimetic nanomaterials
3. in vitro applications of nanoparticles



Important Projects

1. Preparation and evaluation of cytotoxic effects of deoxyglucose labeled and gold loaded apoferritin protein cages, Necmettin Erbakan University BAP Project, Project Number: 191215003. 2020.
2. Evaluation of the effects of chemotherapeutic agent loaded magnetic nanoparticles on glioblastoma cells, Necmettin Erbakan University BAP Project, Project Number: 201215001. 2020- ongoing

Academic Career & Education

1

Bachelors

Ege University
 Faculty of Science
 Department of Chemistry

2

Master

Ege University
 Faculty of Science
 Department of Chemistry

3

Doctorate

Middle East Technical
 University
 Faculty of Science
 Department of Chemistry



Researcher Information

Personel Information

(Title) Name Surname : Dr. Omer KAZAK

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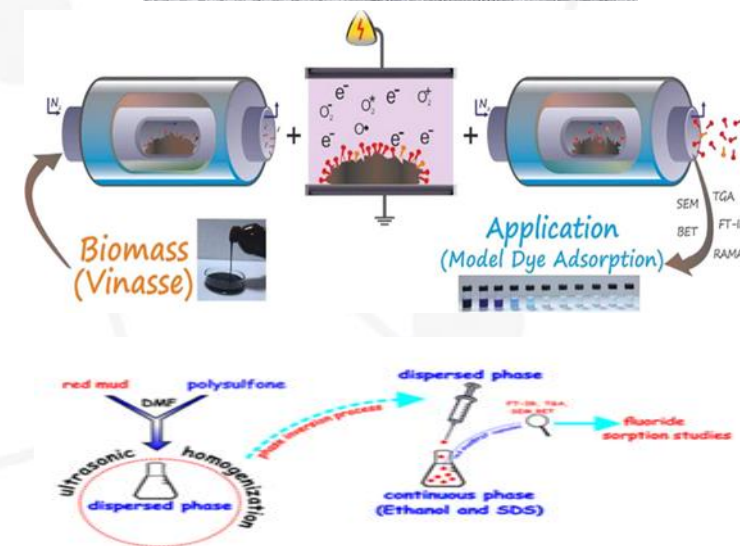
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Official Web Page

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Research Area

1. Environmental Chemistry
2. Waste Reduction and Reuse
3. Carbon-based Materials



Researcher Information

Important Projects

1. Preparation of Thin Film Composite Membranes by Using Waste Papers and Red Mud and Investigation of Their Performances. (2020-
2. Preparation and Characterization of Novel Polysulfone-Red Mud Composite Capsules for the Removal of Fluoride from Aqueous Solutions. (2014-2016)

Academic Career & Education

1

Bachelors

Çukurova University,
Department of Environmental
Engineering

2

Master

Çukurova University,
Department of Environmental
Engineering

3

Doctorate

Necmettin Erbakan University,
Department of Environmental
Engineering.

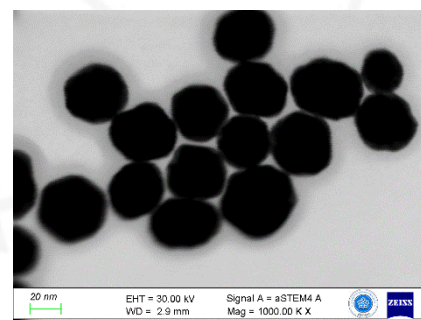
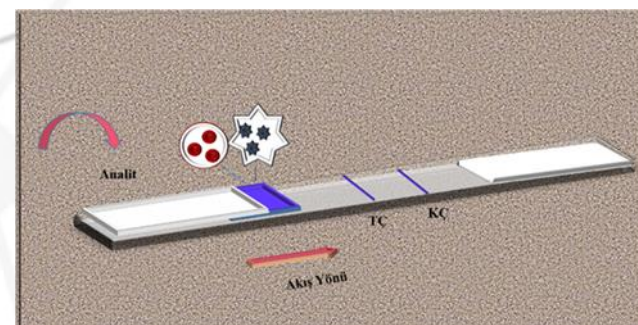
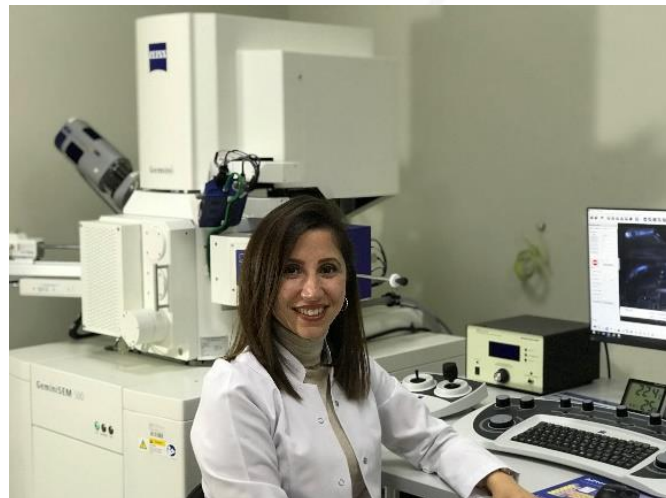


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Research Area

1. Biosensor, 2. Paper Based Sensors, 3. Lateral Flow Assay, 4. Nanoparticle Synthesis, 5. Chiral Sensors, 6. Electron Microscope (STEM,EDX,EBSD)



Important Projects

1. Development of Iridium Oxide Nanoparticle Based Optical Biosensor for the Determination of Parathyroid Hormone (NEU-BAP, Researcher)
2. Preparation of Nanoparticle Doped Paper Sensor Platforms and Investigation of Dopamine Sensor Performance (NEU-BAP, Researcher)

Academic Career & Education

1

Bachelors

Kırıkkale University
 Faculty of Arts and Sciences
 Department of Chemistry, 2008

2

Master

Kırıkkale University
 Graduate School of Natural and Applied Sciences
 Department of Chemistry, 2010

3

Doctorate

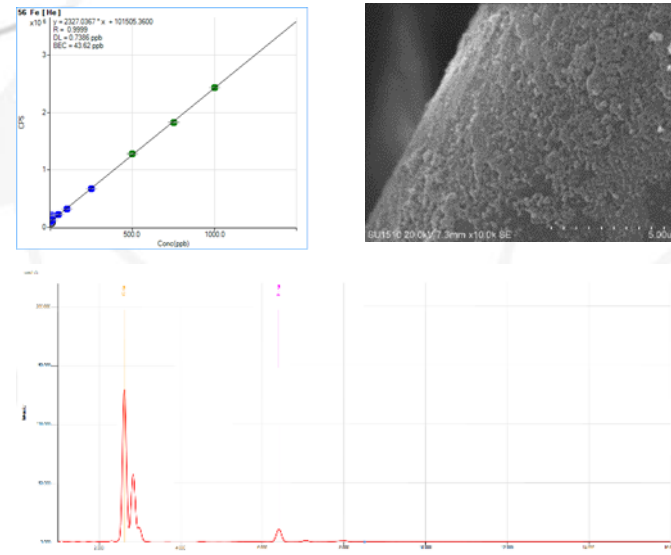
Necmettin Erbakan University
 Graduate School of Natural and Applied Sciences,
 Department of Chemistry, Continuing

Personel Information

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 Phone : 0(332)3243449-4960
 Official Web Page
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Research Area

1. XRF spectroscopy, 2. Solid phase extraction, 3. Metal-organic framework system, 4. Adsorption, 5. Composite preparation, 6. Electro-spinning, 7. Inductive coupled plasma- mass spectroscopy (ICP-MS), 8. Membrane preparation



Important Projects

1. Preparation of Doped Membranes for Some Heavy Metals in Waters, NEU BAP Project, Researcher
2. Preparation of Thin Film Composite Membranes from Waste Paper and Red Mud and Evaluation of Performance, NEU BAP Project, Researcher
3. Preparation and Characterization of Lignin Mineral Composite Structures, Investigation of Adsorbent Properties for BSA and Some Radioactive Metals, CU BAP Project Researcher

Academic Career & Education

1

Bachelors

Ege University
 Faculty of Science
 Department of Chemistry, 2005

2

Master

Cumhuriyet University
 Graduate School of Natural and Applied Sciences,
 Department of Chemistry, 2015

3

Doctorate

Necmettin Erbakan University
 Graduate School of Natural and Applied Sciences
 Department of Chemistry,
 Ongoing

CELL BIOLOGY

AND GENETIC

Researcher Information

Personel Information

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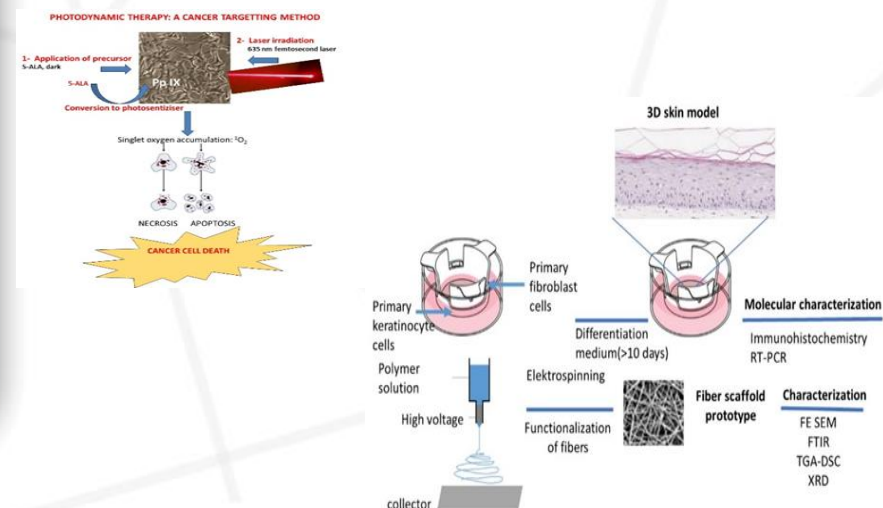
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Official Web Page

<https://www.erbakan.edu.tr/personel/9218/meltem-demirel-kars>

Research Area

1. Cancer molecular biology
2. Evaluation of in-vitro biocompatibility
3. Polymeric drug release technology



Researcher Information

Important Projects

1. Consolidating The Expertise of Necmettin Erbakan University Towards The Development Of Biofibers For Wound Healing And Tissue Regeneration. REGENEU (Coordinator, Horizon Europe, 2022)
2. Application of Soft Gelatin Technology with Different Bioactive Substances (Vegetable Oils and Extracts) as Sr and Mr and Investigation of Release Properties (TUBITAK, 2019)
3. Investigation of Theranostic Effects of Photodynamic Therapy with Femtosecond Laser on Different Cancer Tissues Treated with 5-Ala. (TUBITAK, 2015)

Academic Career & Education

1

Bachelors

Middle East Technical University
Department of Biology

2

Master

Middle East Technical University
Department of Biotechnology

3

Doctorate

Middle East Technical University
Department of Biotechnology

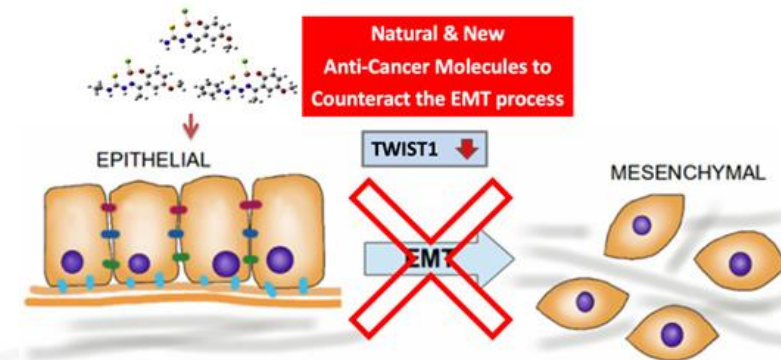


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 Phone : 5059005806
 Official Web Page

Research Area

1. Cancer genetics and cell signalling pathways
2. Anticancer agents
3. Stem cell biology



Important Projects

1. Investigation of the activation mechanism and natural inhibitors of the TWIST1 transcription factor. (TUBITAK-SBAG: 110S185)
2. Development of Induced Pluripotent Stem Cell (UPSC) Bank Technologies (TUBITAK-SBAG 213S181)
3. Investigation of Anti-Cancer Effects of Some Thiosemicarbazone-Metal Complexes (NEU BAP)
4. Investigation of Effects of Platelet Induced Growth Factor-BB(PDGF-BB) factor on PAK4-dependent Cell Migration (NEU BAP)
5. Biosynthesis of Flaxseed-Zinc Oxide Nanoparticles and Investigation of Their Anticancer Effects (NEU BAP)

Academic Career & Education

1

Bachelors

Hacettepe University,
 Faculty of Science,
 Department of Biology

2

Master

Akdeniz University,
 Faculty of Medicine,
 Department of Medical
 Biology and Genetics

3

Doctorate

Akdeniz University,
 Faculty of Medicine,
 Department of Medical
 Biology and Genetics

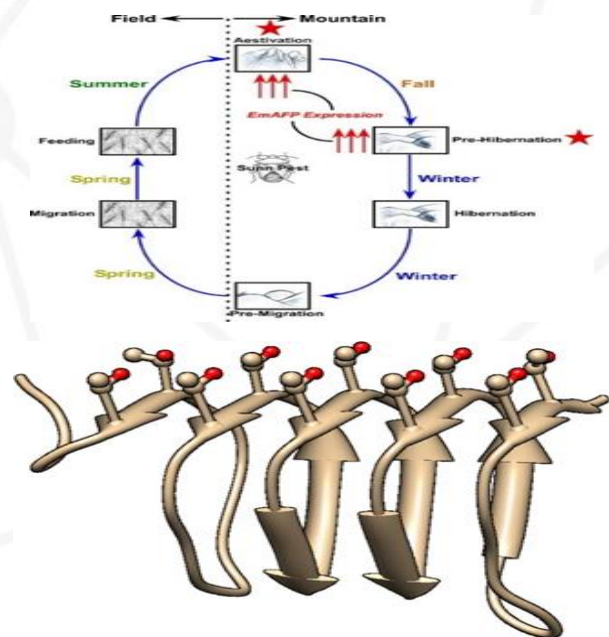
Researcher Information

Personel Information

(Title) Name Surname : Asst. Prof. Dr. Aslı DAĞERİ
Department :Molecular Biology and Genetics
E-mail : adageri@erbakan.edu.tr
Phone : 5445785827
Official Web Page
<https://erbakan.edu.tr/molekulerbiyolojivegenetik>

Research Area

1. Identification, characterization and expression profiling of the genes that are affected by different physiological processes such as diapause, reproduction in agricultural and stored product pests
2. Comparative Transcriptomics, Metagenomics
3. Investigation of the toxic effect of nanoparticles on insects



Researcher Information

Important Projects

1. Metagenome and genome analysis of bacterial endosymbionts of important hazelnut pest, Palomena prasina. TUBITAK. Project nr. 116O328. 03/2017-04/2020. Project Leader.
2. Comparative Transcriptome Analysis of the Stored Grain Pest, Trogoderma granarium. Necmetin Erbakan University, Scientific Research Project Coordination Unit. 2018 – 2022. Project Leader.
3. Insecticidal Efficacy of Copper Nanoparticles for Control of Khapra Beetle (Trogoderma granarium). Necmetin Erbakan University, Scientific Research Project Coordination Unit. 221315001. 2022 - ongoing.

Academic Career & Education

1

Bachelors

Selçuk University
Faculty of Science
Department of Biology

2

Master

Selçuk University
Institute of Science
Department of Biology

3

Doctorate

Ankara University
Biotechnology Institute
Basic Biotechnology



Researcher Information

Personel Information

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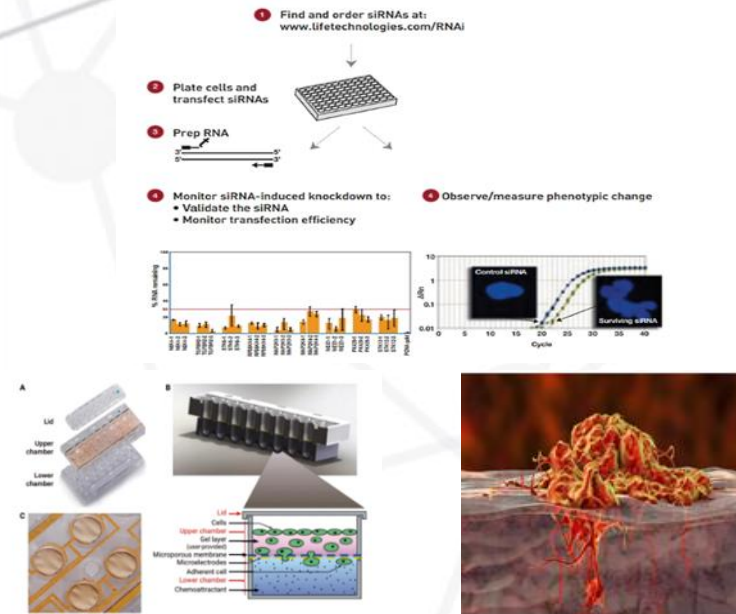
Phone : 05055610760 -0332 323 5431

Official Web Page

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Research Area

1. Medical Biochemistry
2. Infertility
3. Immunogenetics
4. Molecular Biology



Researcher Information

Important Projects

1. Investigation of effects of silver nanoparticles synthesized biologically and chemically on HIF-1 signal pathway in PANC-1 human pancreatic cancer cell line,
2. Investigation of effects of TLR4 pathway on immune check-point VISTA in pancreatic cancer,
3. Investigation of the activity of HIF-1 α signal pathway in infertility men with AZF deletion,
4. Determination of Juglone and Curcumin Treatment on FABPs Effects (Fatty Acid Binding Protein) in MCF-7 and MDA-MB-231 Breast Cancer Cell Lines,
5. Investigation of MT-ATP6 and Cytochrome P450 Molecules's effects on Juglone and Curcumin Treatment in MCF-7 and MDA-MB -231 Breast Cancer Cell Lines,
6. The effect of Curcumin treatment on energy metabolism of cancer cells in PANC-1 and BXP-3 cell lines

Academic Career & Education

1

Bachelors

Selcuk University,
Science Education

2

Master

Selcuk University,
Science Education

3

Doctorate

Selcuk University,
Medical Biochemistry



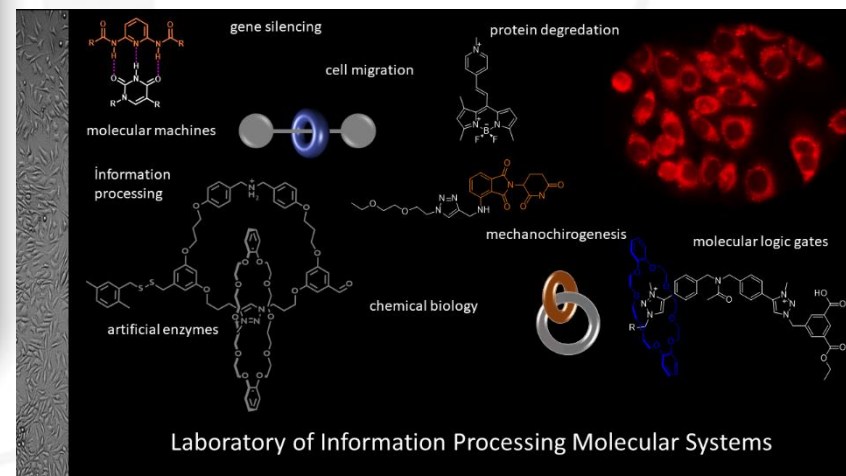
Researcher Information

Personel Information

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<https://sunduserbascakmak.wordpress.com/>

Research Area

1. Chemical Biology – Smart Drug Development
2. Bioinspired - Artificial Molecular Machines
3. Molecular Logic Gates



Researcher Information

Important Projects

1. TÜBİTAK 1001 – Development of Mono or Multi-analyte Responsive Fluorescent Enzyme Sensors with a Common Molecular Scaffold – Principle Investigator (2022-2024)
2. TÜBİTAK 3501 – “Development of Novel Activatable Fluorophores For Use in Super-Resolution Fluorescence Imaging”. Principle Investigator (2019-2022)
3. COST ACTIONS (Action No: CA17104)– “Development of Information Processing Photodynamic Therapy Agents for Use in Multidrug Resistant Tumors”. Principle Investigator (2019-2021))
4. L'oreal UNESCO 2018 – “Catalytic Inhibition of Bacterial Communication with the Use of Artificial Enzymes”. Principle Investigator
5. TUBİTAK 2232 – “Design and Synthesis of Novel and Smart Drug Release Systems Based on Photodynamic Methods”. Principle Investigator
6. Marie Curie Intra-European Postdoctoral Fellowship – “Artificial Molecular Synthesizers”, researcher

Academic Career & Education

1

Bachelors

Boğaziçi University,
Molecular Biology and
Genetics

2

Master

Bilkent University,
Materials Science and
Nanotechnology

3

Doctorate

Bilkent University,
Materials Science and
Nanotechnology



ENERGY AND

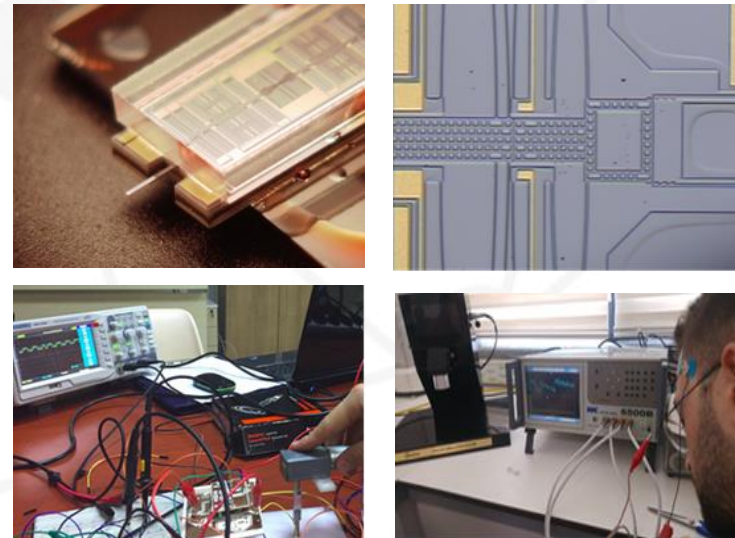
SEMICONDUCTOR
TECHNOLOGIES

Personel Information

(Title) Name Surname : Prof. Dr. Mehmet Akif ERIŞMIŞ
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Phone :
Official Web Page :

Research Area

1. MEMS based systems
2. Capacitive sensors for industrial applications
3. Sensor systems for biomedical applications



Important Projects

1. Development of capacitive rotary encoders for industrial applications, TUBITAK 1005
2. Development of in-line capacitive grain humidity sensors, TUBITAK TEYDEB

Academic Career & Education

1

Bachelors

METU (ODTÜ) EEE, 2002

2

Master

METU (ODTÜ) EEE, 2004

3

Doctorate

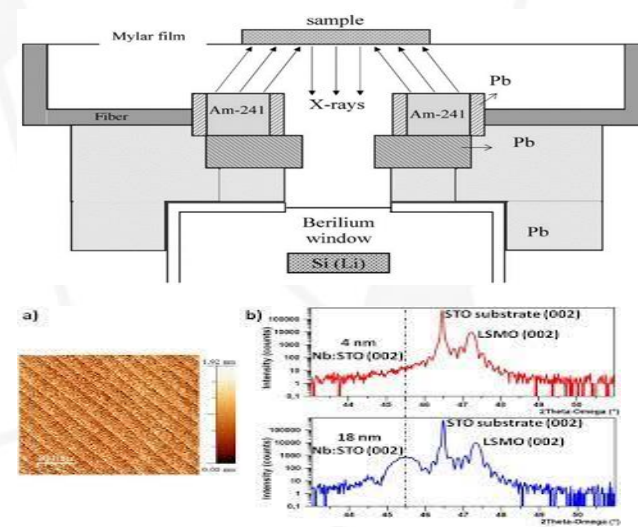
KU Leuven, Belgium, 2009

Personel Information

(Title) Name Surname : Prof. Oğuz DOĞAN
 Department : Department of Physic Education
 E-mail : odogan@erbakan.edu.tr
 Phone : +905324687310
 Official Web Page :
<https://www.erbakan.edu.tr/personel/1315/oguz-dogan>

Research Area

1. Elemental Analysis,
2. X-Ray Fluorescence Spectroscopy,
3. Atomic Molecular Physics,
4. Superconductors,
5. Semiconductors,
6. Thin Films,
7. Nano Coating,
8. Hydrophobic SiO₂ Nano Glass



Important Projects

1. Structural characterization of semiconducting thin films, NEU-BAP, Principal Investigator, 2020
2. Application of liquid glass (SiO₂) on textile products, NEU-BAP, Principal Investigator, 2016

Academic Career & Education

1

Bachelors

Atatürk University
 K.K. Education Faculty,
 Department of Physics
 Teacher, 1992

2

Master

Atatürk University,
 Institute of Sciences,
 Department of Physics
 Teacher, 1995

3

Doctorate

Atatürk University,
 Institute of Sciences,
 Department of Physics, 2000

Researcher Information

Personel Information

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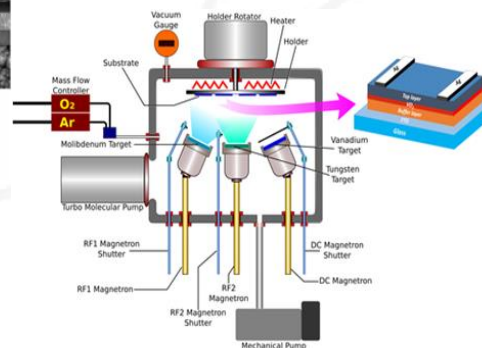
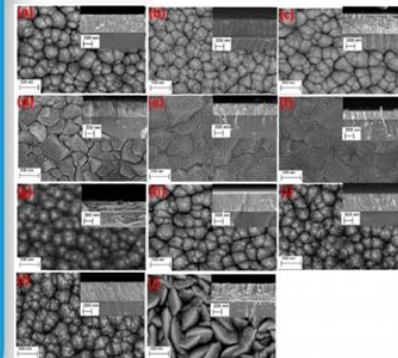
Phone : +905511917738

Official Web Page

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Research Area

1. Metal-oxide, metal-nitride, TMDC thin films
2. Graphene and 2-dimensional TMDC materials
3. Optoelectronic and optoelectronic devices
4. XRD, GIXRD and structure refinement
5. Raman Spectroscopy



Researcher Information

Important Projects

1. Highly Efficient Thin Film Si Solar Cells Produced by Laser Crystallization (The Scientific and Technological Research Council of Turkey (TUBITAK), Principal Investigator, Grant No: 115M062, 2018)
2. Investigation of TCO/TiO2/ZnO/CdS/CdTe/Mo1-xWxO3-y/Au Heterojunction Solar Cell Performance (Scientific Research Projects Coordination Unit at Necmettin Erbakan University (NEU-BAP), Principal Investigator, Grant No: 181710001, 2020)
3. Screen Printed Nickel Ohmic Contact Formation for Commercial Silicon Solar Cells (The Scientific and Technological Research Council of Turkey (TUBITAK), Researcher, Grant No: 120E474, Ongoing)

Academic Career & Education

1

Bachelors

Gazi University,
Gazi Education Faculty,
Department of Physics
Teacher (2000)

2

Master

Selcuk University,
Institute of Science,
Department of Physics
Teacher (2004)

3

Doctorate

Selcuk University,
Institute of Science,
Department of Physics (2008)



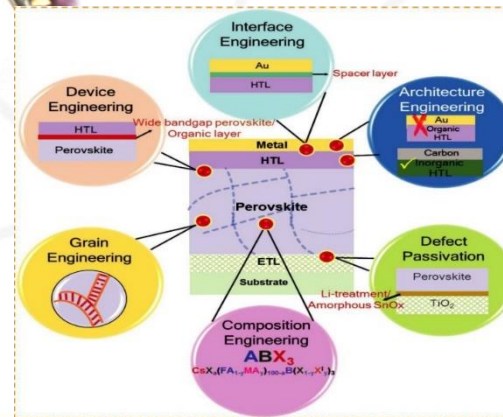
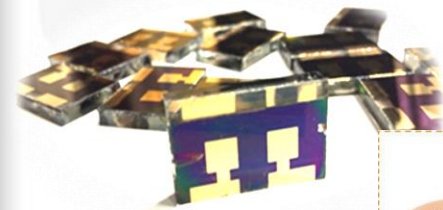
Researcher Information

Personel Information

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E-mail : seckinakin@erbakan.edu.tr
Phone :
Official Web Page :
<https://www.erbakan.edu.tr/en/personel/13507/seckin-akin>

Research Area

1. Photovoltaic Devices
2. Perovskite Solar Cells
3. Novel Materials for Light Energy Harvesting



Researcher Information

Important Projects

1. "Fabrication of Large-Area and All Printable Perovskite Solar Modules", TUBITAK-2247-A National Leading Researchers Program, Project No: 120C126, PI
2. "Development of Highly-Efficient and Stable Perovskite Solar Cells", TUBITAK-1001, Project No: 119F185, PI
3. "Design of Inorganic Hole Transporting Materials for Economical and Long-Term Stable Perovskite Solar Cells", TUBITAK-1001, Project No: 121F166, PI
4. "Test Kit for New Generation Solar Cells", TUBITAK-1512, Project No: 2211279, PI

Academic Career & Education

1

Bachelors

Abant Izzet Baysal University /
Physics

2

Master

Anadolu University / Solid-State
Physics

3

Doctorate

Eskisehir Technical University /
Material Science and
Engineering



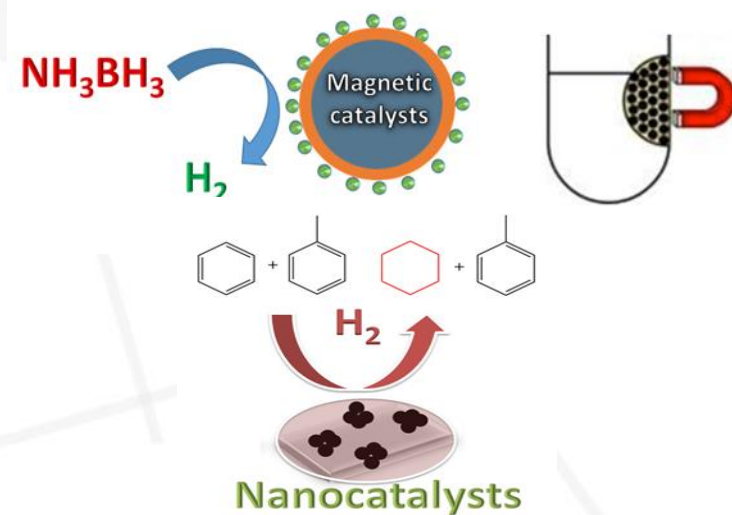
Researcher Information

Personel Information

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Phone : 0544 468 14 99
Official Web Page :

Research Area

1. Catalysts, 2. Metal Nanoparticles, 3. Metal Oxides,
4. Hydrogen Generation, 5. Hydrogenation, 6. Electrocatalysis



Researcher Information

Important Projects

1. The development of selective catalysts
2. The development of magnetic nanocatalysts for the hydrogen generation reactions

Academic Career & Education

1

Bachelors

METU-Ankara
Department of Chemistry

2

Master

METU-Ankara
Department of Chemistry

3

Doctorate

METU-Ankara
Department of Chemistry



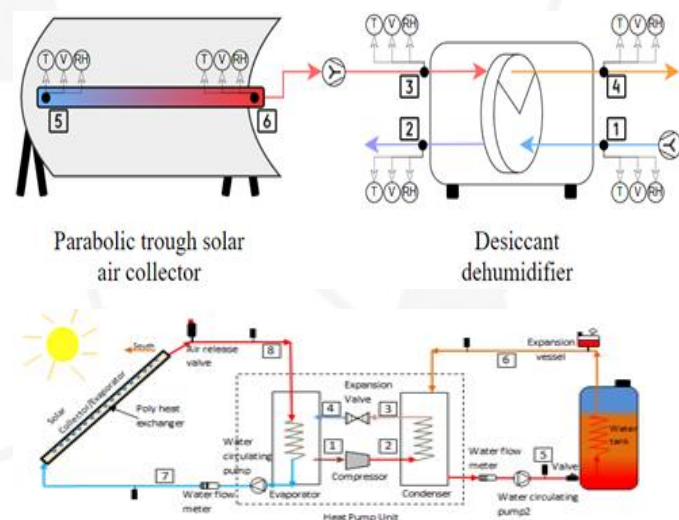
Researcher Information

Personel Information

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 E-mail : msbuker@erbakan.edu.tr
 Phone : 05077239040
 Official Web Page :
<https://www.erbakan.edu.tr/personel/8753/mahmut-sami-buker>

Research Area

1. Solar Energy, 2. Solar Thermal Systems, 2. Green Buildings, 3. Heat pumps, 4. Evaporative coolers, 5. Desiccant/Dehumidification Systems, 6. Combined Heat and Power, 7. Hybrid renewable energy technologies



Researcher Information

Important Projects

1. H2020-LC-SC3 – SureFit-Sustainable Solutions for Affordable Retrofit of Domestic Buildings (H2020)
2. EU Sustainable Construction iNet- Building integrated PV/T combined with a compact Liquid desiccant enhanced Evaporative cooler
3. Design and prototype manufacturing of DAQ card for performance monitoring of photovoltaic systems (TÜBİTAK)
4. Design and prototype manufacturing of an Indirect Evaporative Cooling System (KOSGEB)

Academic Career & Education

1

Bachelors

Industrial Engineering

2

Master

Project Management and Operational Development / KTH Royal Institute of Technology

3

Doctorate

Institute of Sustainable Energy Technology / University of Nottingham



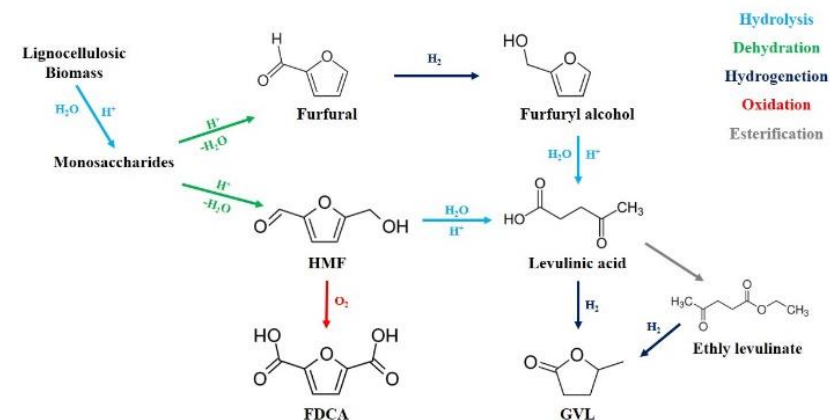
Researcher Information

Personel Information

(Title) Name Surname : Asst. Prof. Atif Emre DEMET
Department : Energy Systems Engineering
E-mail : atifemredemet@gmail.com
Phone : +905423642887
Official Web Page :
<https://www.linkedin.com/in/atifemredemet/>

Research Area

1. Heterogeneous Catalysts, 2. Biomass Valorization & Value-added Chemicals, 3. Energy Storage Materials & Li/Na-ion Batteries, 4. Marine Mucilage, 5. IPRs & Patent Landscape Studies, 6. Circular Economy & LCA



Researcher Information

Important Projects

1. Multilayer Monomaterial Active Packaging Materials (COST-STSM CA19124)
2. REGENEU, HORIZON-WIDERA-2021-ACCESS-03 (Grant Agreement ID: 101079123)
3. COMBO: Conductive biOpolyMer/cyanobacteria BPVs (Turkey&Uzbekistan, TÜBİTAK 2518)
4. Non-noble Metal Catalysts Assisted Routes for Furan-Derived Monomers (COST-STSM CA18220)
5. An Investigation on the Valorization of Mucilage (TÜBİTAK 1001)
6. The Treatment of Methods of Information in Science and Technology Intelligence (ENSCM&TRTF)
7. Biomass Valorization for the Production of Value-added Chemicals and Bio-fuels (FPA 2013-0037)
8. The Fluorophosphate as Positive Electrode Material for Li and Na-Ion Batteries (EMJMD, CNRS)
9. Synthesis of Electrode Materials $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ via Electrospray Deposition Method (TU Delft)

Academic Career & Education

1

Bachelors

Department of Chemistry,
Bilkent University, Turkey

2

Master

Materials For Energy Storage
And Conversion (MESAC,
European Erasmus Mundus
Joint Master Programme)
(France, Poland, Spain, France)

3

Doctorate

Sustainable Industrial
Chemistry (SINCHEM,
European Erasmus Mundus
Joint Doctorate)
(Italy, France, Belgium)



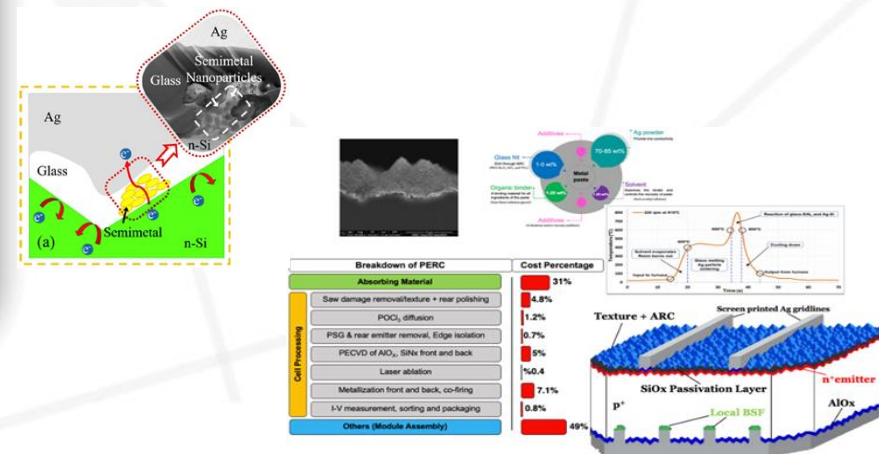
Researcher Information

Personel Information

(Title) Name Surname : Asst. Professor Veysel UNSUR
 Department : Fundamental Science in Engineering
 E-mail : vunsur@erbakan.edu.tr
 Phone : +90 5538310809
 Official Web Page : www.erbakan.edu.tr/veyselunsur

Research Area

1. Photovoltaic Solar Cells
2. Opto-electronic Devices
3. Metal-Semiconductor Contacts



Researcher Information

Important Projects

1. Developing nickel metal paste for Si wafer based solar cells
2. Optimization of metal semiconductor's contacts in opto-electronic devices
3. Treatment of light induced boron-oxygen defects in Cz Si wafers
4. Simulating the LCOE for on-grid, off-grid and utility scale PV systems

Academic Career & Education

1

Bachelors

Eskisehir Osmangazi University
 Department of Physics

2

Master

University of North Carolina
 Applied Physics and Optical
 Engineering

3

Doctorate

University of North Carolina
 Electrical and Computer
 Engineering



FOOD

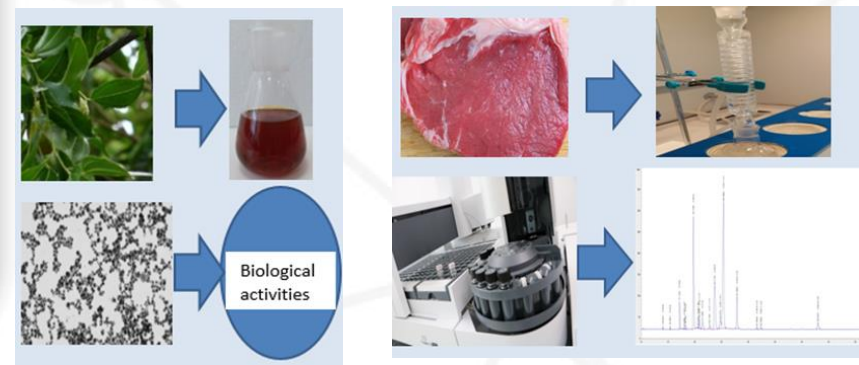
AND DRUG

Personel Information

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 E-mail : ozmenguler@gmail.com
 Phone : 05053692905
 Official Web Page
<https://www.erbakan.edu.tr/personel/411/gokalp-ozmen-guler>

Research Area

1. Fatty acids, 2. Conjugated linoleic acid, 3. Chromatography, 4. Phenolic compounds, 5. Nanoparticles and biological activity



Important Projects

1. Bazı Fabaceae türlerinin Alzheimer, deri hastalıkları ve diabetle ilişkili enzimleri inhibe etme aktiviteleri ile antioksidan kapasitelerinin araştırılması, 113Z892, ARDEB, KBAG - Kimya Biyoloji Araştırma Destek Grubu 3001 Projesi, Yürütücü, 2014-2015
2. Çavuşcu Gölü'ndeki *Cyprinus carpio* (Linnaeus, 1758)'nun Yağ Asidi Bileşiminin Belirlenmesi- N.Ü. BAP 161210008

Academic Career & Education

1

Bachelors

Selcuk University
 Biology Teaching-2001

2

Master

Selcuk University
 Graduate School of Natural and Applied Sciences-Biology-2005

3

Doctorate

Selcuk University
 Graduate School of Natural and Applied Sciences-Biology-2009

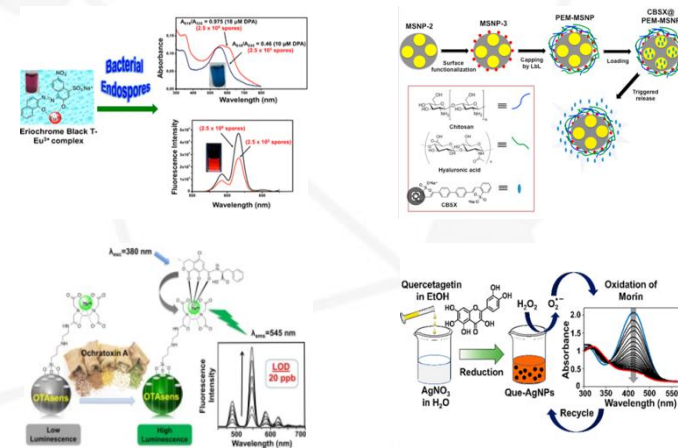
Researcher Information

Personel Information

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Phone :
Official Web Page :
<https://www.erbakan.edu.tr/personel/13995/mahmut-deniz-yilmaz>

Research Area

1. Organic Chemistry, 2. Chemical Sensors, 3. Supramolecular Chemistry, 4. Nanoparticles, 5. Surface Functionalization, 6. Antibacterials, 7. Drug Release,



Researcher Information

Important Projects

1. 'Nanoencapsulation of Fluorescent Whitening Agents to Enhance the Fluorescent Stability and Preparation Method thereof', TÜBİTAK BİDEB 2236 "Co-Funded Brain Circulation Scheme"
2. 'Lantanit Şelatlı Mezoporlu Silika Nanoparçacıklar Kullanarak Mikotoksinlerin Floresans Yöntem ile Belirlenmesi' TÜBİTAK 3501 Career Development Program
3. 'Bakteri Sporlarının Floresan Özellikteki Silika Nanoparçacıklar Kullanılarak Belirlenmesi ve Yeni Bir Yatay Akış Test Platformunun Geliştirilmesi', TÜBİTAK 1001 The Scientific and Technological Research Projects Funding Program

Academic Career & Education

1

Bachelors

Ankara University,
Department of Chemistry

2

Master

Middle East Technical
University
Department of Chemistry

3

Doctorate

University of Twente (The
Netherlands),
Faculty of Science and
Technology, Molecular
Nanofabrication Group



FOOD and DRUG



FOOD and DRUG

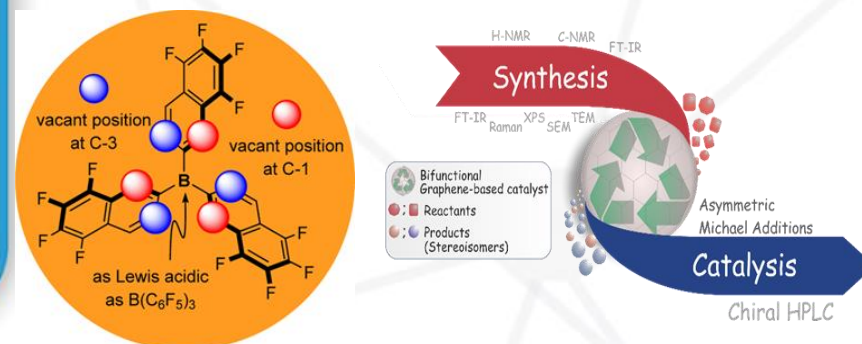
Researcher Information

Personel Information

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Research Area

1. Organic Chemistry
2. Homogenous and Heterogenous Catalysis
3. Lewis acid Catalysis
4. Supramolecular Chemistry



Researcher Information

Important Projects

1. Preparation of Graphene-based Chiral Bifunctional Heterogenous Catalysts and Application in Enantioselective Reactions
2. Synthesis of Calix[4]arene-based Chiral Squaramide Derivatives and Use as Chiral Catalysts in Enantioselective Reactions

Academic Career & Education

1

Bachelors

Selçuk University,
Chemistry Education, 2004

2

Master

Selçuk University,
Department of Mathematics
and Science Education, 2007

3

Doctorate

Selçuk University, Chemistry, 2011
Post-Doc: Technische Universität
Berlin (TU Berlin), Institut für
Chemie, 2012–2013



FOOD and DRUG



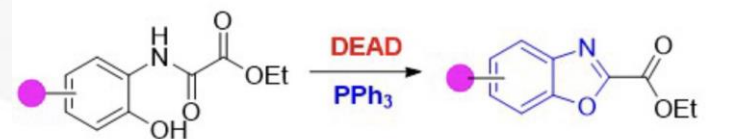
FOOD and DRUG

Personel Information

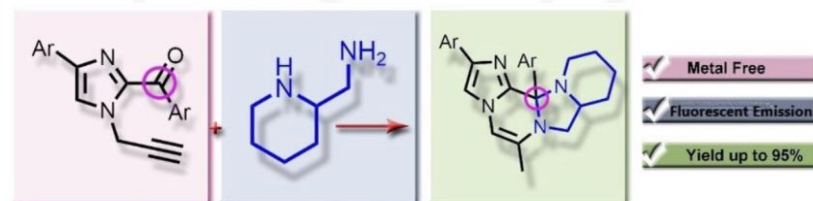
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 Phone : +90-532-4960282
 Official Web Page : www.nrmenges.com

Research Area

1. Organic Chemistry
2. Medicinal Chemistry
3. Theoretical Chemistry
4. ES IPT-based Fluorescent Molecules



● Mild conditions ● DFT calculation ● Selective cyclization



Important Projects

1. Drug Design and pre-clinic studies for Glioblastoma (funded by Türkiye Ministry of Health (TÜSEB))
2. DNA Targeted New ES IPT-based sensors (funded by TÜBİTAK)
3. Generic Drug and Antiseptic Formulations (funded by Türkiye Ministry of Technology (KOSGEB))
4. Synthetic Methodologies for Unknown Heterocyclic Skeletons (funded by TÜBİTAK)

Academic Career & Education

1

Bachelors

Van Yüzüncü Yil University,
Chemistry Department, 2004

2

Master

Van Yüzüncü Yil University,
Chemistry Department,
Organic Chemistry Section,
2007

3

Doctorate

Middle East Technical Chemistry
and Van Yüzüncü Yil University,
Chemistry Department, Organic
Chemistry Section, 2012

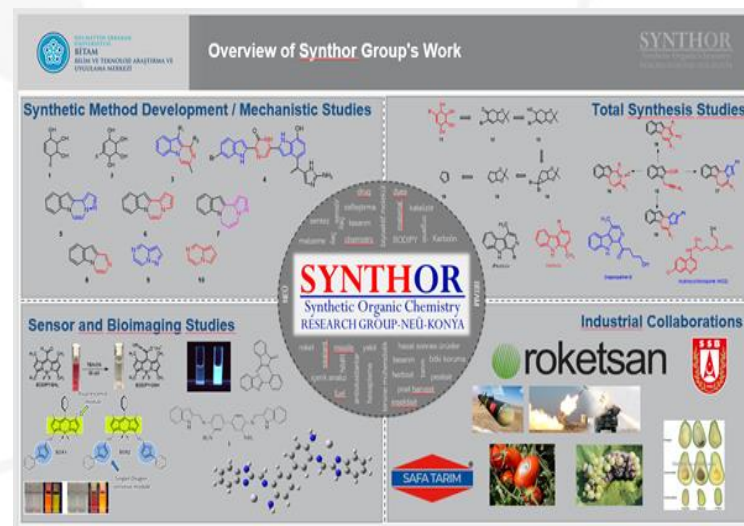
Researcher Information

Personel Information

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E-mail : serdalkaya@gmail.com
Phone : +905336178224
Official Web Page :
<https://akademik.yok.gov.tr/AkademikArama/view/viewAuthor.jsp>

Research Area

1. Organic Chemistry
2. Bioactive molecule Synthesis
3. Solid Rocket Propellants
4. Adhesive and Sealant Compositions



FOOD and DRUG

Researcher Information

Important Projects

1. Investigation of Solid Rocket Propellant Components (Industry-University Collaboration Project, ROKETSAN), Principal Investigator.
2. A New Method for the Synthesis of Beta- and Gamma-Carboline Derivatives: Total Synthesis of Oxopropaline-G (TÜBİTAK (The Scientific and Technological Research Council of Turkey) - 3501 Career Development Project), Principal Investigator.
3. Studies to Determine Synthesis Procedure with National Facilities for Hydroxychloroquine (HCQ) Pharmaceutical Agent Used in the Treatment of SARS-CoV-2 (COVID-19) Pandemic Disease (Product Oriented Research Project), Principal Investigator.

Academic Career & Education

1

Bachelors

Selçuk University,
Education Faculty,
Department of Chemistry

2

Master

No Information

3

Doctorate

Middle East Technical
University
Faculty of Science and Arts
Department of Chemistry

FOOD and DRUG



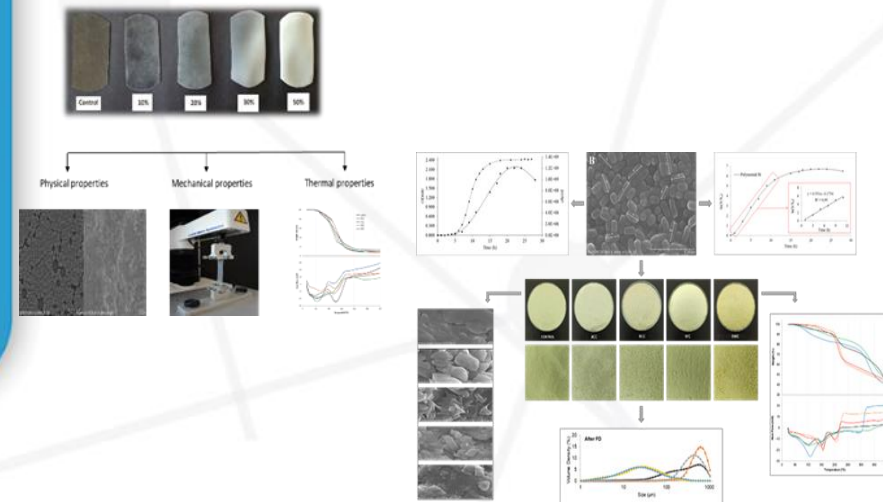
Researcher Information

Personel Information

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Official Web Page :
<https://www.erbakan.edu.tr/en/personel/2969/gamze-ucok/>

Research Area

1. Food Microbiology
2. Food Biotechnology
3. Food Characterization
4. Edible Films and Coatings



Researcher Information

Important Projects

1. The effects of the use of sourdough on gluten-free bread quality, BAP, Researcher, 2011.
2. Determination of the cryoprotective roles of different dairy by-products in the freeze-drying of *Lactobacillus plantarum* isolated from sourdough, BAP, Researcher, 2018-2020.

Academic Career & Education

1

Bachelors

Erciyes University
Food Engineering

2

Master

Erciyes University
Food Engineering

3

Doctorate

Necmettin Erbakan University
Food Engineering



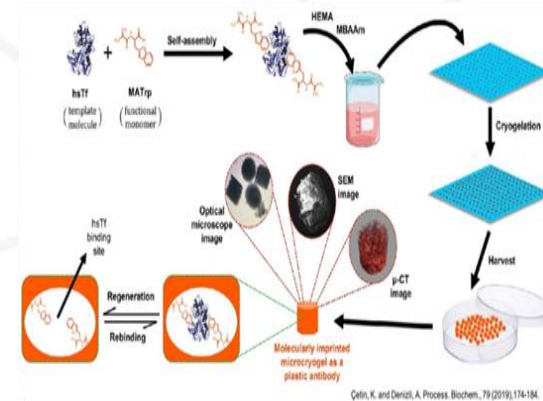
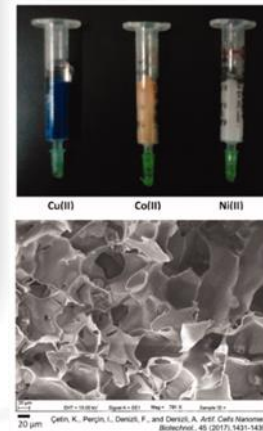
Researcher Information

Personel Information

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Research Area

1. Drug Delivery Systems and Controlled Release Systems
2. Hydrogels – Cryogels, Soft Polymeric Systems
3. Chromatography



Researcher Information

Important Projects

1. Synthesis of Biodegradable Antibacterial Microcryogels and Investigation of Their Controlled Release and Antibacterial Properties
2. Synthesis of Multifunctional, Biodegradable and Controlled Release Microcryogel Fertilizers
3. Preparation of Polymeric Cartridges for Preconcentration of Drug Molecules Before High Performance Liquid Chromatography Analysis

Academic Career & Education

1

Bachelors

Fatih University
Department of Chemistry

2

Master

Hacettepe University
Department of Chemistry
Biochemistry Division

3

Doctorate

Hacettepe University
Department of Chemistry
Biochemistry Division



FOOD and DRUG



FOOD and DRUG

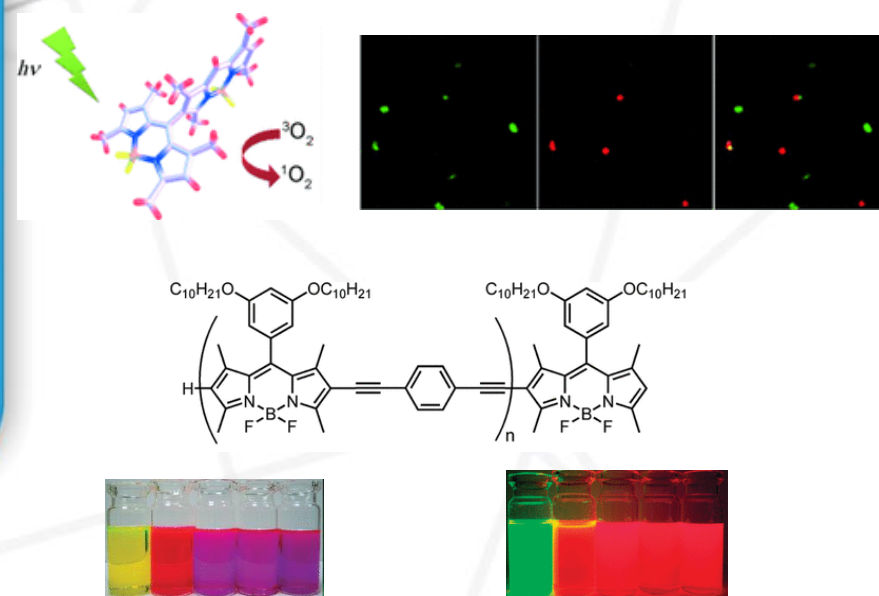
Researcher Information

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Research Area

1. Fluorescent organic material synthesis and applications, 2. Photodynamic therapy, 3. Organic solar cells, 4. Development of dark quenchers for fluorescent bioimaging, 5. Dye-sensitized solar cells, 6. Molecular Machines, 7. Organocatalysis



FOOD and DRUG

Researcher Information

Important Projects

1. Synthesis and Application of Photodynamic Therapy Agents Activatable with Various Components (TÜBİTAK 1001)
2. Design, Synthesis and Characterization of Electron Donor Molecules for Organic Solar Cells (TÜBİTAK 3501)
3. Development and Application of A Smart Photosensitizers for Photosensitivity (TÜBİTAK 1002)
4. Development of BODIPY Based Dyes for Dye-Sensitized Solar Cells (TÜBİTAK 3001)

Academic Career & Education

1

Bachelors

Middle East
Technical University, Chemistry

2

Master

Middle East
Technical University, Chemistry

3

Doctorate

Bilkent University,
Materials Science and
Nanotechnology

FOOD and DRUG



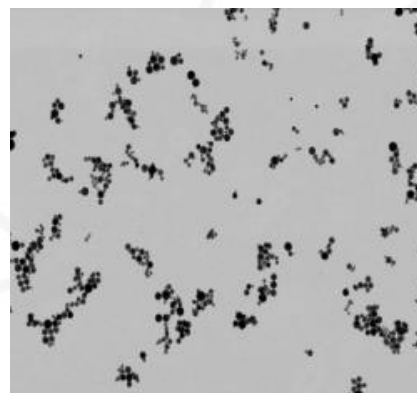
Researcher Information

Personel Information

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Research Area

1. Fatty acid composition
2. Nanoparticle Synthesis and characterization
3. Plant Biotechnology
4. Molecular Biology



Researcher Information

Important Projects

1. Sub-kronik tiner bağımlısı ratlarda karaciğer ve akciğer dokularında bazı biyokimyasal parametrelerdeki değişim ve bunlara alfa-lipoik asitin etkisinin araştırılması, BAP, Araştırmacı, 2009
2. Konya yöresinde 'küflü peynir' olarak üretilen peynirlerin aflatoksin ve yağ asitleri dağılımı bakımından araştırılması, NEU, BAP, Araştırmacı, 2022

Academic Career & Education

1

Bachelors

Selçuk University/ Biology

2

Master

Afyon Kocatepe University,
Faculty of Science
Department of Biology

3

Doctorate

Kahramanmaraş Sütçü İmam
University, Graduate School of
Natural and Applied Sciences
Department of Bioengineering



FOOD and DRUG



FOOD and DRUG

MATERIAL AND

MANUFACTURING
TECHNOLOGIES

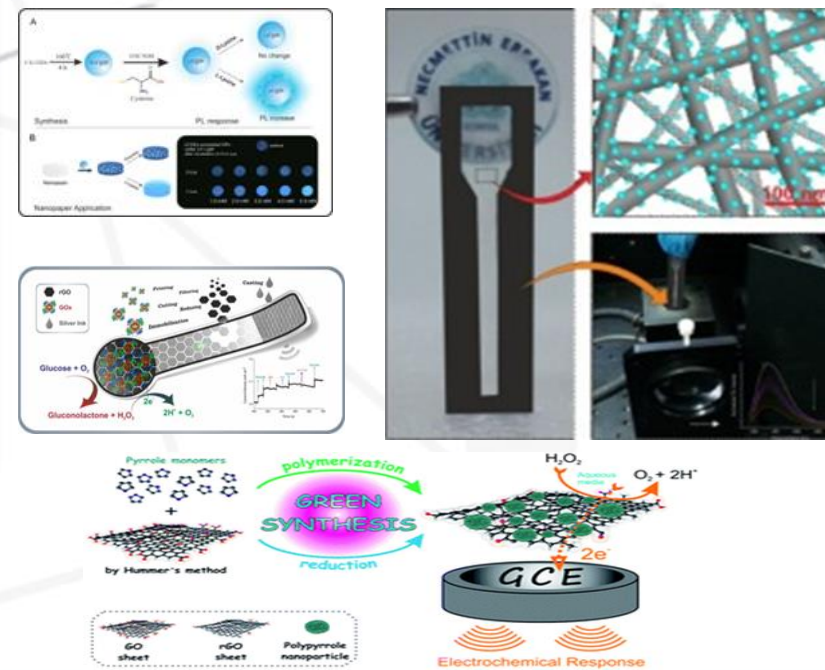
Researcher Information

Personel Information

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Research Area

1. Chemistry, 2. Biosensors, 3. Chemical Sensors, 4. Graphene-based Materials, 5. Nanoparticles, 6. Carbon-based Quantum Dots



Researcher Information

Important Projects

1. Synthesis and Application of Colloidal Particles at Selective Solid Surface" (TÜBİTAK/COST), 2. Fabrication of Enantio-selective Graphene and Carbon Quantum Dots for Chiral Compound Detection by fluorometric method (TÜBİTAK/1001), 3. The Preparation of Graphene-based Modified Electrodes and Investigation of Their Discrimination Properties for Chiral Compounds, (TÜBİTAK/1001), 4. Fabrication of Enantio-selective Graphene and Carbon Quantum Dots for Chiral Compound Detection by fluorometric method, (TÜBİTAK/1001), 5. Nanobiosensor for rapid detection of neurotoxic human cystatin C oligomers (TÜBİTAK/POLAND)., 6. Preparation of Graphene-based Chiral Bifunctional Heterogenous Catalysts and Application in Enantioselective Reactions (TÜBİTAK/1001).

Academic Career & Education

1

Bachelors

Selçuk University,
Chemistry Education (1999)

2

Master

Selçuk University,
Institute of Educational
Sciences, Chemistry (2002),
(Erasmus-Charles University)

3

Doctorate

Selçuk University,
Institute of Sciences, Chemistry
(2007)



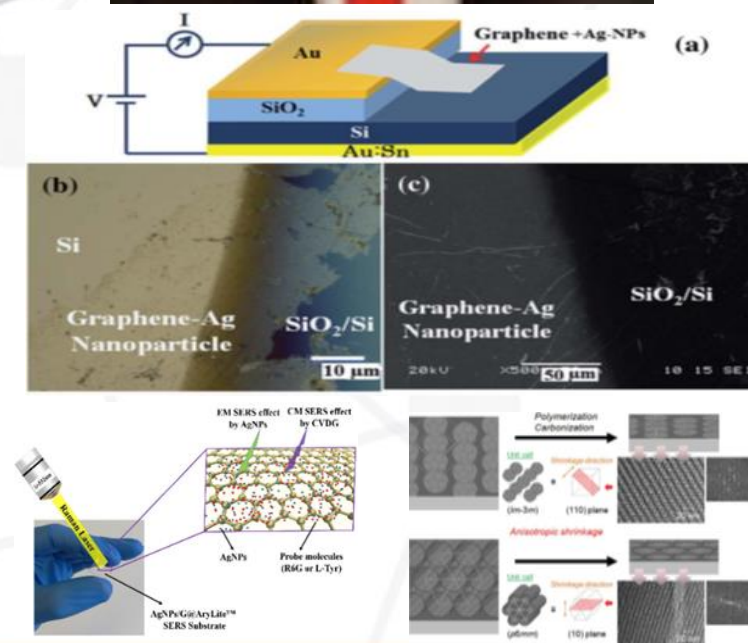
Researcher Information

Personel Information

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Official Web Page :

Research Area

1. Carbon nanomaterials
2. Synthesis and characterization of nanomaterials for next generation energy device applications
3. Nanoelectronics and nanooptics



Researcher Information

Important Projects

1. Development of multi-nanoscale porous carbon materials towards large capacity energy storage and electrode applications
2. CVD Graphene-based Flexible and Transparent SERS Substrates towards L-tyrosine Detection

Academic Career & Education

1

Bachelors

Inonu University,
Department of Electrical and
Electronics Engineering, TURKEY

2

Master

Nagoya Institute of Technology,
Department of Frontier Materials,
JAPAN

3

Doctorate

Nagoya Institute of Technology,
Department of Frontier Materials,
JAPAN



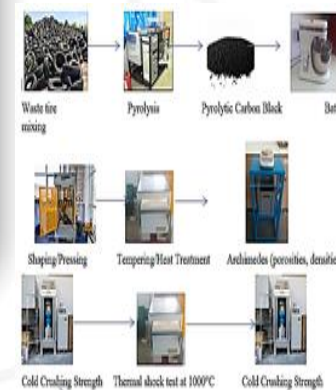
Researcher Information

Personel Information

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Research Area

1. Ceramic Materials
2. Refractory Materials
3. Waste Recovery



Researcher Information

Important Projects

1. The Investigation for Usability of Carbon Products Obtained from Tire/Rubber Waste by the Method of Pyrolysis in MgO-Carbon Refractory Bricks.
2. Investigation of Production of Phenolic Resin Bonded Grinding Discs From Waste Foundry Sand.
3. Investigation of the Use of Precision Casting Waste Sand in the Production of Floor Tiles, Porcelain Tiles and Opaque Glaze.

Academic Career & Education

1

Bachelors

Anadolu University,
Material Science and
Engineering

2

Master

3

Doctorate

Anadolu University,
Ceramic Engineering

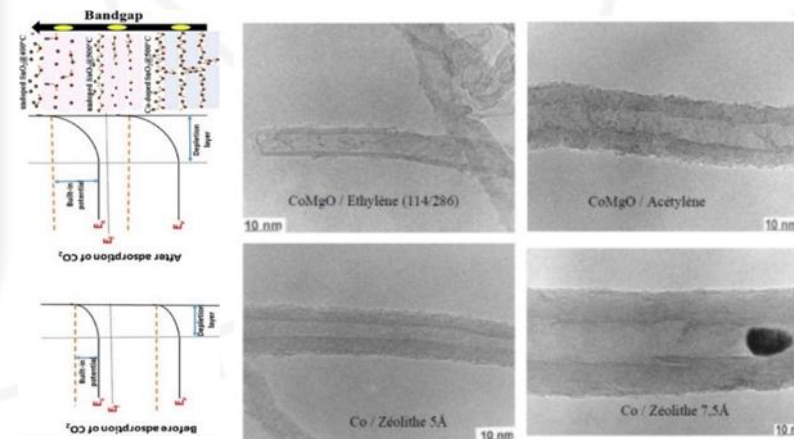


Personel Information

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<https://www.erbakan.edu.tr/personel/3277/yasin-ramazan-eker>

Research Area

1. Lithium batteries (Li-ion, Solid State), 2. Supercapacitors (Aqueous and Organic Electrolyte), 3. Production, activation and adsorption ability of carbon based materials, 4. Recovery of valuable elements from hydrometallurgical processes (NiTi files, Bauxite residue red mud, Co-WC cutting tools), 5. Metal-metal adhesives (Al honeycomb panels), 6. Gas sensors , 7. Thin film based optoelectronic devices (Thermochromic and photoelectronic sensors)



Important Projects

1. Integrated process for the recovery of Rare Earth Elements and Scandium from Bauxite Residues
2. Interfacing of 2D Transition-Metal Dichalcogenides, Semiconductor Metal Oxides with Phase Transition Vanadium Oxide Structures: Preparation, Characterization and Application
3. Researches about Preparation, Characterization and Adsorption of Activated Carbon from Natural Precursor
4. Production of APT (Ammonium Paratungstate) from Waste WC based Cutting Tools Recovery
5. Development of Cathode / Solid Electrolyte Interface for Solid State Lithium Batteries

Academic Career & Education

1

Bachelors

2003 – Chemistry
 Orléans University / France

2

Master

2004 – Multiscale materials
 Orléans University / France
 (Thesis: Carbon nanotubes as conductive additives materials for lithium-ion batteries)

3

Doctorate

2008 – Material science
 Orléans University / France
 (Thesis: Electrochemical lithium storage in disordered carbons and silicium/carbon composites)

Researcher Information

Personel Information

(Title) Name Surname : Assist. Prof. Dr. Çetin ÖZTÜRK

Department : Traditional Turkish Arts, Old Tile Repairs Department

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Official Web Page

<https://www.erbakan.edu.tr/personel/5975/cetin-ozturk>

Research Area

1. Traditional Ceramics
2. Material Characterization
3. Archeometry
4. Ceramic Art



Researcher Information

Important Projects

1. Surface modification of historical Sille stones with Silane coating
2. Mevlana Museum Green Dome Restoration Project
3. Characterization of Some Tile Finds from the Seljuk Period by Archaeometric Methods.

Academic Career & Education

1

Bachelors

Afyon Kocatepe University
Ceramic Engineering Department

2

Master

Afyon Kocatepe University
Ceramic Engineering Department

3

Doctorate

Afyon Kocatepe University
Metal Education Department



Personel Information

Title Name Surname : Assist. Prof. Dr. Hakan Burak KARADAĞ

Department : Metallurgical and Material Engineering

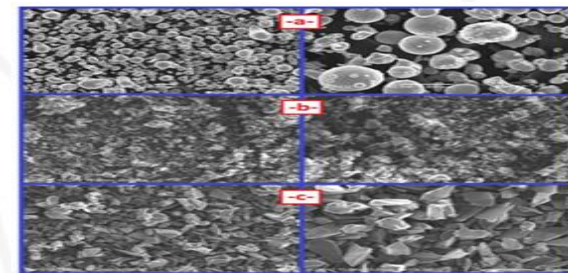
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Research Area

1. Mechanical Properties of Materials, 2. Powder Metallurgy, 3. Tribology, 4. Recovery of valuable elements from hydrometallurgical processes (NiTi files, Bauxite residue red mud, Co-WC cutting tools), 5. Metal-metal adhesives (Al honeycomb panels), 6. Metamaterials, 7. Honeycomb based composites



CuSn10 b50s50 b60s40 b70s30

Important Projects

1. Integrated process for the recovery of Rare Earth Elements and Scandium from Bauxite Residues
2. Production of APT (Ammonium Paratungstate) from Waste WC based Cutting Tools Recovery
3. Effect of Austempering Heat Treatment on Microstructure - Impact Toughness and Wear Behavior in High Carbon Steel Powder Metal
4. Production of Composites with Sinterization of Copper-Iron Alloy Powders under Protective Atmosphere and Investigation of the Effect of Nanometric Solid Lubricants on the Tribological Properties of Composites
5. Production of Metal Matrix Composite Materials by Recycling Cast Iron and Bronze Chips Investigation of Mechanical Properties and Usability as Self Lubricating Plain Bearings

Academic Career & Education

1

Bachelors

2001- Mechanical Engineering
Selçuk University / Turkey

2

Master

2005- Mechanical Engineering
Selçuk University / Turkey

3

Doctorate

2012- Mechanical Engineering
Selçuk University / Turkey

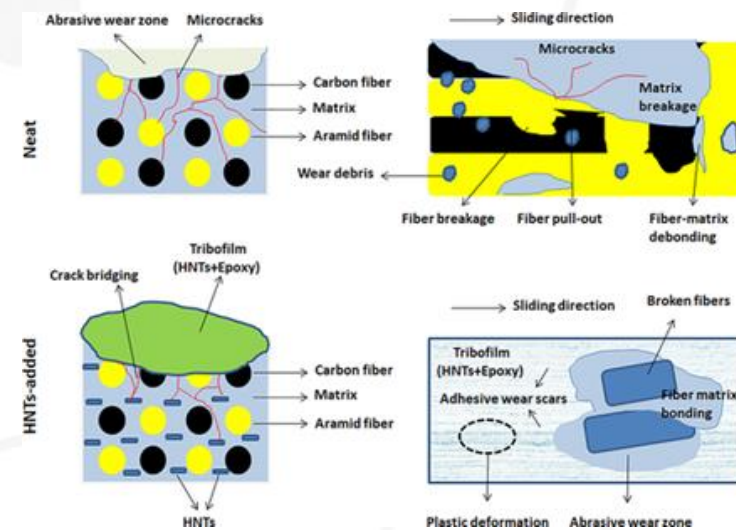
Researcher Information

Personel Information

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Official Web Page :

Research Area

1. Sandwich Panels
2. Composite Materials
3. Powder Metallurgy
4. Wear



Researcher Information

Important Projects

1. SRP- Investigation of the Effect of Alloying Elements on α and β Phase Stability of Nanocrystalline Titanium Based Alloys Produced by High Energy Milling (Project Manager, Grant No: 181216001)
2. SRP- Investigation of Mechanical Performance of Sandwich Composite Panels Used in Aviation with the Addition of Carbon Nano Tube to Polyurethane Adhesives (Project Manager, Grant No: 201216002)

Academic Career & Education

1

Bachelors

Kocaeli University,
Department of Mechanical
Engineering

2

Master

Karadeniz Technical University,
Institute of Natural Sciences

3

Doctorate

Karadeniz Technical University,
Institute of Natural Sciences



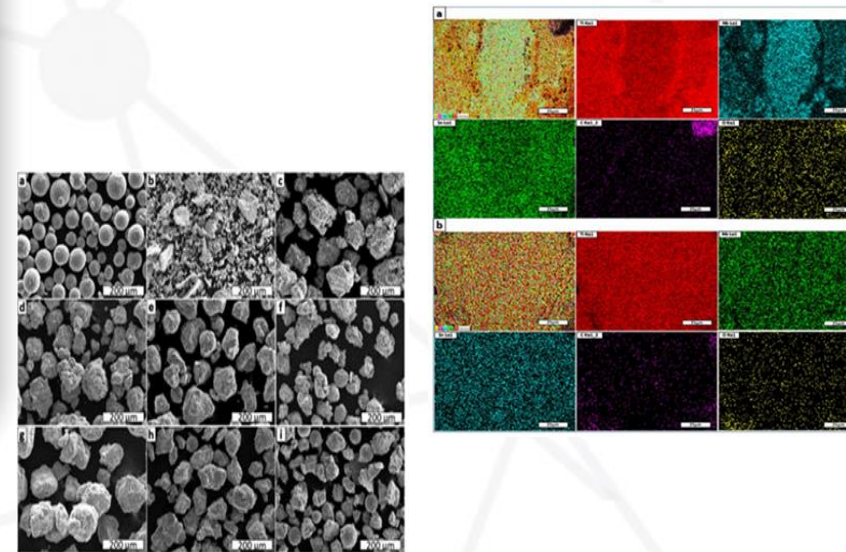
Researcher Information

Personel Information

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Research Area

1. Powder Metallurgy
2. Mechanical Alloying
3. Biomaterials
4. Materials Characterization



Researcher Information

Important Projects

1. Necmettin Erbakan University Research Project (Coordinator)
2. Necmettin Erbakan University Research Project (Researcher), TÜBİTAK 3501 (Scholarship Student)
3. Necmettin Erbakan University Infrastructure Project (Researcher)

Academic Career & Education

1

Bachelors

Sivas Cumhuriyet University
Metallurgical and Materials
Engineering

2

Master

Istanbul Technical University
Materials Science and
Engineering

3

Doctorate

Afyon Kocatepe University
Materials Science and
Engineering



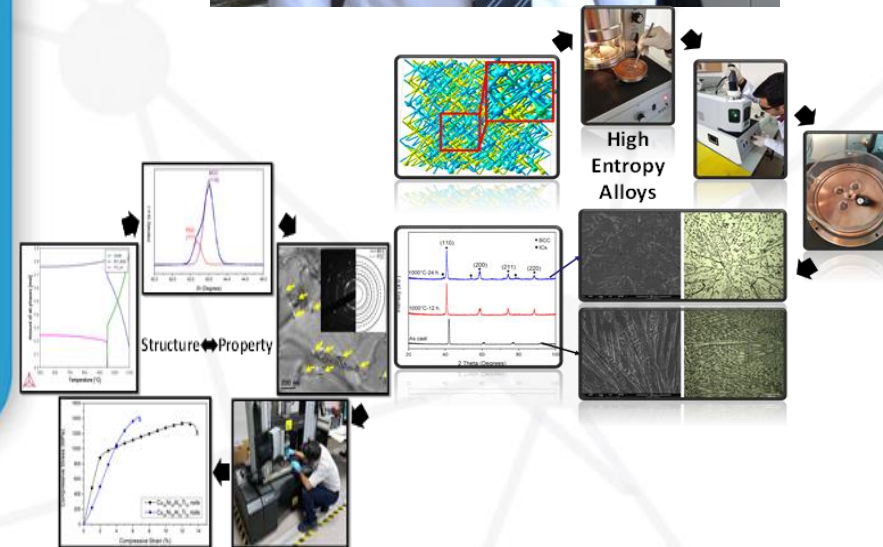
Researcher Information

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Research Area

1. High entropy alloys, 2. Metallic glasses (amorphous metals), 3. Thermodynamic approaches for alloy design and phase transformations in alloys, 4. The relationship between structure and mechanical properties of alloys, 5. X-ray diffraction (XRD), 6. Electron microscopy (SEM and TEM)



Researcher Information

Important Projects

1. Development of Low Density High Strength High Entropy Alloys (HEAs)-TÜBİTAK-1001-Scholarship (2017-2020)
2. Investigation of the Effect of Secondary Phases on Microstructural and Mechanical Properties of HEAs Produced from Industrial Grade Metals-BAP-Coordinator (2021-...)
3. Production and Optimization of Refractory High Entropy Alloys for Aerospace Applications-BAP-Researcher (2022-...)

Academic Career & Education

1

Bachelors

Yıldız Technical University
Metallurgical and Materials Engineering

2

Master

Yıldız Technical University
Metallurgical and Materials Engineering

3

Doctorate

Middle East Technical University
Metallurgical and Materials Engineering



Researcher Information

Personel Information

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Department : Metalurgical and Materials Engineering

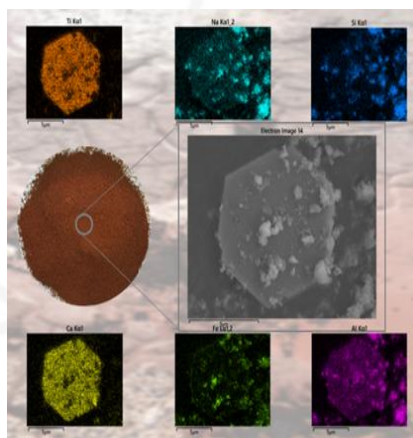
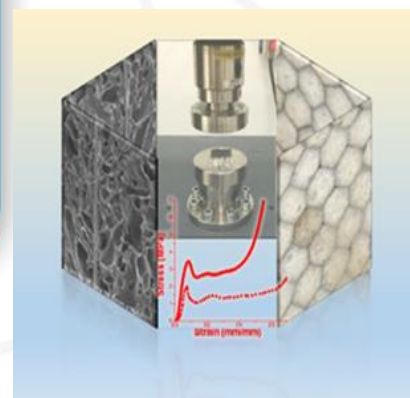
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Research Area

1. Hydrometallurgy, 2. Recovery and Recycling, 3. Composite Materials, 4. Materials Characterization, 5. Scanning Electron Microscope (EBSD/EDX/STEM), 6. Inductively Coupled Plasma Mass Spectrometry



Researcher Information

Important Projects

1. BAP, 2217MER03003, Researcher, Production and Optimization of Refractory High Entropy Alloys for Aerospace Applications, 2022-present

2. ERA-NET Cofund on Raw Materials (ERA-MIN 2), Scholarship, 120N269, Integrated process for the recovery of Rare Earth Elements and Scandium from Bauxite Residues, 2021-present

3. TUBITAK 1001, Scholarship, 113M241, Synthesis of New Generation Ionic Liquids and Investigation of Usability as Leaching Agent (Solvent) and Extractant on the Recovery of Copper and Zinc From Industrial Brass Wastes, 2013-2015

Academic Career & Education

1

Bachelors

Yildiz Technical University,
Metalurgical and Materials
Engineering, 2014

2

Master

Yildiz Technical University,
Metalurgical and Materials
Engineering, 2018

3

Doctorate

Necmettin Erbakan University,
Mechanical Engineering, 2018-
Present

