

Asst. Prof. Halil İbrahim Yavuz

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Education Information

Doctorate, Middle East Technical University, Mühendislik Mimarlık Fakültesi, Metalurji Ve Malzeme Müh., Turkey 2007 - 2014

Masters (Non-Thesis), Cukurova University, Eğitim Fakültesi, Kimya Öğretmenliği, Turkey 2003 - 2004

Undergraduate, Cukurova University, Fen Edebiyat, Kimya, Turkey 1998 - 2003

Certificates, Courses and Trainings

Finance, Royal Acaedemy of Engineering, Newton Found, 2016

Dissertations

Doctorate, Design of high-efficiency dye-sensitized nanocrystalline solar cells, Middle East Technical University, Mühendislik Mimarlık Fakültesi, Metalurji Ve Malzeme Mühendisliği, 2014

Research Areas

Mechanical Engineering, Construction and Manufacturing, Material, Metallurgical and Materials Engineering, Material science and engineering, Optical Properties, Nanomaterials, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Mühendislik Fakültesi, Makine Mühendisliği, 2018 - Continues

Assistant Professor, Van Yüzüncü Yil University, Mühendislik Fakültesi, Makine Mühendisliği, 2015 - 2018

Research Assistant PhD, Van Yüzüncü Yil University, Mühendislik Fakültesi, Maden Mühendisliği, 2014 - 2015

Research Assistant, Middle East Technical University, Mühendislik Mimarlık Fakültesi, Metalurji Ve Malzeme Mühendisliği, 2006 - 2014

Courses

malzelerin optik elektriksel ve manyetik özellikleri, Postgraduate, 2014 - 2015

Advising Theses

Yavuz H. İ., zirkonyum elementi eklenmiş titanyum dioksit nano parçacıkların kanserojen kimyasallar giderimi üzerine etkisi, Postgraduate, j.muhammed(Student), Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Enhanced Performance of Nanowire-Based All-TiO₂ Solar Cells using Subnanometer-Thick Atomic Layer Deposited ZnO Embedded Layer**
Ghobadi A., Yavuz H. İ., Ulusoy T. G., Icli K. C., Ozenbas M., Okay A. K.
ELECTROCHIMICA ACTA, vol.157, pp.23-30, 2015 (SCI-Expanded)
- II. **Production of core-shell type conducting FTO/TiO₂ photoanode for dye sensitized solar cells**
Icli K. C., Yavuz H. İ., Ozenbas M.
JOURNAL OF SOLID STATE CHEMISTRY, vol.210, no.1, pp.22-29, 2014 (SCI-Expanded)
- III. **Photovoltaic performance of bifacial dye sensitized solar cell using chemically healed binary ionic liquid electrolyte solidified with SiO₂ nanoparticles**
Cosar B., Icli K. C., Yavuz H. İ., Ozenbas M.
ELECTROCHIMICA ACTA, vol.87, pp.425-431, 2013 (SCI-Expanded)
- IV. **Degradation of 4-chloro-2-methylphenol in aqueous solution by electro-Fenton and photoelectro-Fenton processes**
IRMAK S., Yavuz H. İ., ERBATUR O.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.63, pp.243-248, 2006 (SCI-Expanded)
- V. **Comparison of the treatment methods efficiency for decolorization and mineralization of Reactive Black 5 azo dye**
KUSVURAN E., IRMAK S., Yavuz H. İ., SAMIL A., Erbatur W.
JOURNAL OF HAZARDOUS MATERIALS, vol.119, pp.109-116, 2005 (SCI-Expanded)
- VI. **Comparison of several advanced oxidation processes for the decolorization of Reactive Red 120 azo dye in aqueous solution**
KUŞVURAN E., GÜLNAZ O., IRMAK S., Atanur O. M., YAVUZ H. İ., ERBATUR O.
Journal of Hazardous Materials, vol.109, pp.85-93, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effects of iron sources and doses on plant growth criteria in soybean seedlings**
Gülser F., Yavuz H. İ., Gökaya T. H., Sedef M.
Eurasian Journal of Soil Science, vol.8, no.4, pp.298-303, 2019 (Scopus)
- II. **NANOPARTİKÜL İÇERİKLİ SIVI BESİYERLERİNDE Lactococcus garvieae İZOLATLARININ GELİŞİM FARKLILIKLARININ SPEKTROFOTOMETRİK OLARAK BELİRLENMESİ**
Önalın Ş., Yavuz H. İ.
Menba Journal of Fisheries Faculty, vol.5, no.1, pp.6-15, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **YARI PAMUK YARI POLİ ETİLEN YENİ NESİL KOMPOZİT KUMAŞLARIN BALİSTİK ÖZELLİKLERİNİN İYİLEŞTİRİLMESİ VE GELİŞTİRİLMESİ**
Mert S. O., YAVUZDOĞAN U., Yavuz H. İ.
13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7219
- II. **Effects of Different Iron Forms and Doses on Plant Growth Criteria in Soybean (Glycine max L.)**
Gülser F., Yavuz H. İ., Gökaya T. H., Sedef M.
International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, no.1, pp.583

- III. **2 Boyutlu Bio-Nanorobotik Parçacıkların İnvitro Kanser Hücre Teşhis ve Tedavisinde Kullanımı**
Taş A., Yavuz H. İ.
I. International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 December 2017, vol.1, no.1, pp.24
- IV. **3D Modeling and Comparison of Flow Field Patterns of a PEM Fuel Cell**
Toprak M. M., Mert S. O., Badak M. U., Yavuz H. İ.
International Multidisciplinary Congress of Eurasia (IMCOFE), Roma, Italy, 23 - 25 August 2017, vol.3, pp.336-351
- V. **Optimizing New Type NanoComposite Infrared to ultraviolet up conversion on Luminescence Layer for Efficient Anatase titania Film Based Dye Sensitized Solar Cells**
Yavuz H. İ., candan i., yetkin S.
mrs spring meeting 2016, Phoniex, United States Of America, 01 January 2016, pp.36
- VI. **Optimizing Wide Band Gap ZrO₂ Blocking Layer for TiO₂ Film-Based Dye Sensitized Solar Cells**
Yavuz H. İ., OZENBAS M.
mrs fall meeting 2015, Boston, United States Of America, 30 November - 04 December 2015, pp.257
- VII. **1D and 0D advantage materials application on TCO surface on dye sensitized solar cells**
Yavuz H. İ.
Mae-2015 second international conf. mech and aut. Engin., Roma, Italy, 18 - 22 April 2015, pp.50-54

Supported Projects

Keskin S., Yavuz H. İ., Mengeş N., Görgişen G., Görentaş N., Project Supported by Higher Education Institutions, Van Yüzüncü Yıl Üniversitesinin Patent Potansiyelinin Araştırılması Değerlendirilmesi Patent Başvuru Sürecinin Hızlandırılması ve Fikri Sınai Mülkiyet Konusunda Sertifikalı Eğitimler Verilerek Kurumsal Farkındalık Oluşturulması, 2018 - 2021

Yavuz H. İ., Önalın Ş., Taş A., Sancak T., Adalı S., Project Supported by Higher Education Institutions, Nanopartikül içerikli sıvı besiyerlerinde Lactococcus garvieae izolatlarının gelişim farklılıklarının spektrofotometrik olarak belirlenmesi, 2018 - 2019

Yavuz H. İ., Project Supported by Higher Education Institutions, Kuantum Noktacık İle Duyarlı Hale Getirilmiş Nano Örgü Yapılı Güneş Pili Üretimi, 2015 - 2018

Memberships / Tasks in Scientific Organizations

royal academy of engineering, Member, 2016 - Continues

Scientific Consultations

Milli Savunma Bakanlığı, Scientific Consultancy, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey, 2015 - Continues

Scientific Research / Working Group Memberships

NATO STO, NATO, France, <https://www.sto.nato.int/Pages/default.aspx>, 2016 - Continues

ArGE, Milli Savunma Bakanlığı, Turkey, msb.gov.tr, 2015 - Continues

Metrics

Publication: 16
Citation (WoS): 361
Citation (Scopus): 399
H-Index (WoS): 6
H-Index (Scopus): 7

Congress and Symposium Activities

Optimizing new type Nano Composite UPC TiO₂ Film-Based for Dye Sensitized Solar Cells, Attendee, Nevada, United States Of America, 2016
1D and 0D Advantage Materials Application on TCO Surface on Dye Sensitized Solar Cells, Attendee, Roma, Italy, 2015

Scholarships

Leaders in Innovation Fellowships, British Council, 2016 - Continues

Awards

Yavuz H. İ., Genç Bilim Adamı, Türkiye Metalurji ve Malzeme Müh. Odası, September 2014

Non Academic Experience

SEVERGY AS
Chimera Ltd. Şti.