

Prof. ŞABAN PATAT

Personal Information

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Education Information

Doctorate, University Of Oxford-St. Catherine's College, Temel Bilimler Fakültesi, Kimya/Anorganik Kimya, United Kingdom 1989 - 1993

Post Graduate, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Anorganik Kimya, Turkey 1983 - 1985

Under Graduate, Karadeniz Teknik Üniversitesi, Temel Bilimler Fakültesi, Kimya, Turkey 1978 - 1982

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Studies of mixed oxides and related phases, University of Oxford, Faculty of Physical sciences, Chemistry, 1992

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Electrical and Magnetic Properties, Chemistry, Physical Chemistry, Interface Chemistry, Electrochemistry, Composites, nanocomposites, Inorganic Chemistry, Clusters/Solids and Surfaces, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Erciyes Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2000 - Continues

Associate Professor, Erciyes Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, 1995 - 2000

Assistant Professor, Erciyes Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 1993 - 1995

Research Assistant, Erciyes Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 1984 - 1993

Research Assistant, Erciyes Üniversitesi, Mühendislik Fakültesi, Kimya, 1983 - 1984

Courses

Uzmanlık Alan Dersi, Post Graduate, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

Tez Çalışması 1, Post Graduate, 2019 - 2020

Endüstriyel Kimya, Under Graduate, 2019 - 2020

Kimyada Matematik Metotlar, Under Graduate, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019

İnorganik Kimyada Malzemelerin Karakterizasyonu, Post Graduate, 2012 - 2013, 2017 - 2018

Bitirme Tezi I, Under Graduate, 1995 - 1996, 1996 - 1997, 1997 - 1998, 1998 - 1999, 1999 - 2000, 2000 - 2001, 2001 -

2002, 2002 - 2003, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Bitirme Tezi II, Under Graduate, 1995 - 1996, 1996 - 1997, 1997 - 1998, 1998 - 1999, 1999 - 2000, 2000 - 2001, 2001 - 2002, 2002 - 2003, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015

Anorganik Kimya I, Under Graduate, 1995 - 1996, 1996 - 1997, 1997 - 1998, 1998 - 1999, 1999 - 2000, 2001 - 2002, 2002 - 2003, 2004 - 2005, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013

Anorganik Kimya II, Under Graduate, 1995 - 1996, 1996 - 1997, 1997 - 1998, 1998 - 1999, 1999 - 2000, 2000 - 2001, 2001 - 2002, 2002 - 2003, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012

Advising Theses

Patat Ş., Değişik Metal Katkılanmış İçerme Bileşiklerinin Sentezi, Karakterizasyonu ve Doldurulabilir Lityum Piller, Post Graduate, E.Özkan(Student), 2003

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Osmaniye Korkut Ata Üniversitesi, February, 2020

Appointment Academic Staff, Appointment Academic Staff, Kırşehir Ahi Evran Üniversitesi, March, 2019

Appointment Academic Staff, Akademik Kadroya atama jürisi, Abdullah Gül Üniversitesi, June, 2016

Associate Professor Exam, Jüri üyeliği, İzmir Yüksek Teknoloji Enstitüsü, April, 2015

Post Graduate, Yüksek Lisans Tez Savunma sınavı, Erciyes Üniversitesi, December, 2013

Appointment Academic Staff, Doçentlik Atama Jüri Üyesi, Abdullah Gül Üniversitesi, November, 2013

Associate Professor Exam, Doçentlik Jüri Üyeliği, İstanbul Teknik Üniversitesi, April, 2013

Competition, Ortaöğretim Okulları Proje Yarışması Kimya Alanı Jüri Üyesi, TÜBİTAK, April, 2013

Appointment Academic Staff, Yardımcı doçentlik atama Jüri Üyesi, Erciyes Üniversitesi, March, 2013

Post Graduate, Yüksek Lisans Tez Savunma Sınavı, Erciyes Üniversitesi, January, 2013

Associate Professor Exam, Doçentlik Jüri Üyeliği, Ondokuz Mayıs Üniversitesi, January, 2013

Associate Professor Exam, Doçentlik Jüri Üyeliği, Ondokuz Mayıs Üniversitesi, January, 2013

Associate Professor Exam, Doçentlik Jüri Üyeliği, Ondokuz Mayıs Üniversitesi, January, 2013

Post Graduate, Yüksek Lisans tez Savunma sınavı, Erciyes Üniversitesi, December, 2012

Associate Professor Exam, Doçentlik Jüri Üyeliği, Akdeniz Üniversitesi, June, 2012

Associate Professor Exam, Doçentlik Jüri Üyeliği, Skdeniz Üniversitesi, June, 2012

Associate Professor Exam, Doçentlik Jüri Üyeliği, Akdeniz Üniversitesi, June, 2012

Competition, Ortaöğretim Okulları Proje Yarışması Kimya Alanı Jüri Üyesi, TÜBİTAK, April, 2012

Appointment Academic Staff, Profesörlük atama Jüri Üyesi, Kahramanmaraş Şütçü imam Üniversitesi, January, 2012

Doctorate, Doktora Tez savunma, Erciyes üniversitesi, December, 2011

Competition, Ortaöğretim Okulları Proje Yarışması Kimya Alanı Jüri Üyesi, TÜBİTAK, April, 2011

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Dispersive solid phase extraction of copper and lead from water and lichen samples with an activated carbon@Fe/Mn/O composite derived from sucrose-based activated carbon**

Berkdemir V., Tokaloğlu Ş., Yıldız S., Patat Ş.

ANALYTICAL METHODS, vol.11, pp.5311-5319, 2019 (Journal Indexed in SCI)

- **Effect of silver coating on electrochemical performance of 0.5Li(2)MnO(3).0.5 LiMn1/3Ni1/3Co1/3O2 cathode material for lithium-ion batteries**

Sahan H., Goktepe H., Patat Ş., Yıldız S., Ozdemir B., Ülgen A., Mukerjee S., Abraham K. M.

JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.23, pp.1593-1604, 2019 (Journal Indexed in SCI)

- **A novel and green synthesis of mixed phase CoO@Co3O4@C anode material for lithium ion batteries**

Sahan H., Goektepe H., Yildiz S., Çaymaz C., PATAT Ş.

IONICS, vol.25, pp.447-455, 2019 (Journal Indexed in SCI)

- **Dispersive solid-phase extraction with tannic acid functionalized graphene adsorbent for the preconcentration of trace beryllium from water and street dust samples**
Yavuz E., Tokaloğlu Ş., Patat Ş.
TALANTA, vol.190, pp.397-402, 2018 (Journal Indexed in SCI)
- **Magnetic dispersive solid phase extraction with graphene/ZnFe₂O₄ nanocomposite adsorbent for the sensitive determination of mercury in water and fish samples by cold vapor atomic absorption spectrometry**
Yavuz E., Tokaloğlu Ş., Patat Ş.
MICROCHEMICAL JOURNAL, vol.142, pp.85-93, 2018 (Journal Indexed in SCI)
- **Core-shell Fe₃O₄ polydopamine nanoparticles as sorbent for magnetic dispersive solid-phase extraction of copper from food samples**
Yavuz E., Tokaloğlu Ş., Patat Ş.
FOOD CHEMISTRY, vol.263, pp.232-239, 2018 (Journal Indexed in SCI)
- **Zirconium-based highly porous metal-organic framework (MOF-545) as an efficient adsorbent for vortex assisted-solid phase extraction of lead from cereal, beverage and water samples**
Tokaloğlu Ş., Yavuz E., Demir S., Patat Ş.
FOOD CHEMISTRY, vol.237, pp.707-715, 2017 (Journal Indexed in SCI)
- **Dispersive Solid-Phase Extraction of Rhodium from Water, Street Dust, and Catalytic Converters Using a Cellulose-Graphite Oxide Composite**
Yavuz E., TOKALIOĞLU Ş., Şahan H., Kaçer M., PATAT Ş.
ANALYTICAL LETTERS, vol.50, pp.63-79, 2017 (Journal Indexed in SCI)
- **Vortexing/shaking-free solid phase extraction of lead(II) by using an urchin-like NiCo₂O₄ hollow microsphere adsorbent**
Yavuz E., Tokaloğlu Ş., Şahan H., Berberoğlu A., Patat Ş.
MICROCHIMICA ACTA, vol.184, pp.1191-1198, 2017 (Journal Indexed in SCI)
- **Ionic liquid coated carbon nanospheres as a new adsorbent for fast solid phase extraction of trace copper and lead from sea water, wastewater, street dust and spice samples**
Tokaloğlu Ş., Yavuz E., Sahan H., Colak S. G. , Ocakoglu K., Kaçer M., Patat Ş.
TALANTA, vol.159, pp.222-230, 2016 (Journal Indexed in SCI)
- **Effect of silver and carbon double coating on the electrochemical performance of LiFePO₄ cathode material for lithium ion batteries**
Goktepe H., Sahan H., PATAT Ş.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, pp.9774-9779, 2016 (Journal Indexed in SCI)
- **Nanosized spongelike Mn₃O₄ as an adsorbent for preconcentration by vortex assisted solid phase extraction of copper and lead in various food and herb samples**
Yavuz E., Tokaloğlu Ş., Sahan H., Patat Ş.
FOOD CHEMISTRY, vol.194, pp.463-469, 2016 (Journal Indexed in SCI)
- **Graphite Oxide Solid-Phase Extraction of Copper(II) and Lead(II) from Water, Food, Tobacco, and Hair**
Yavuz E., Tokaloğlu Ş., Sahan H., Yılmaz B., Patat Ş.
ANALYTICAL LETTERS, vol.49, pp.2193-2206, 2016 (Journal Indexed in SCI)
- **Spectrophotometric determination of basic fuchsin from various water samples after vortex assisted solid phase extraction using reduced graphene oxide as an adsorbent**
Tokaloğlu S., Yavuz E., Aslantas A., Sahan H., Taskin F., Patat Ş.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.149, pp.378-384, 2015 (Journal Indexed in SCI)
- **Nano sponge Mn₂O₃ as a new adsorbent for the preconcentration of Pd(II) and Rh(III) ions in sea water, wastewater, rock, street sediment and catalytic converter samples prior to FAAS determinations**
Tokaloğlu Ş., Yavuz E., Şahan H., Patat Ş.
Talanta, vol.128, pp.31-37, 2014 (Journal Indexed in SCI)
- **Improvement of cycling stability of LiMn₂O₄ cathode by Fe₂O₃ surface modification for Li-ion battery**
Sahan H., Dokan F., ÜLGEN A., PATAT Ş.

IONICS, vol.20, pp.323-333, 2014 (Journal Indexed in SCI)

- **Synthesis and Characterization of Spinel Li₄Ti₅O₁₂ Anode Material by CTAB Assisted Sol-Gel Method**
Dokan F. K. , Sahan H., Ozdemir B., ÖZDEMİR N., PATAT Ş.
ACTA PHYSICA POLONICA A, vol.125, pp.648-649, 2014 (Journal Indexed in SCI)
- **Effects of TiO₂ Source on the Electrochemical Performance of Li₄Ti₅O₁₂**
Dokan F. K. , Sahan H., ÖZDEMİR N., Ozdemir B., PATAT Ş.
ACTA PHYSICA POLONICA A, vol.125, pp.650-651, 2014 (Journal Indexed in SCI)
- **Preconcentration of Ag and Pd ions using graphite oxide and 2,6-diaminopyridyne from water, anode slime and catalytic converter samples**
Yildirim G., Tokaloğlu Ş., Sahan H., Patat Ş.
RSC ADVANCES, vol.4, pp.18108-18116, 2014 (Journal Indexed in SCI)
- **Ultralayered Co₃O₄ as a new adsorbent for preconcentration of Pb(II) from water, food, sediment and tobacco samples**
Yavuz E., Tokaloğlu Ş., Sahan H., Patat Ş.
TALANTA, vol.115, pp.724-729, 2013 (Journal Indexed in SCI)
- **Improvement of Cycling Stability of LiMn₂O₄ Cathode by Al₂O₃ Surface Coating for Li-Ion Batteries**
Sahan H., Goktepe H., Dokan F. K. , AYDIN A., Veziroglu S., PATAT Ş.
ACTA PHYSICA POLONICA A, vol.123, pp.368-370, 2013 (Journal Indexed in SCI)
- **The Effect of Multiple Cation (Al, Si, Ti, Co) Doping on Electrochemical Performance of LiMn₂O₄ Cathode Active Material**
Dokan F. K. , Sahan H., Veziroglu S., Tas N. A. , AYDIN A., PATAT Ş.
ACTA PHYSICA POLONICA A, vol.123, pp.365-367, 2013 (Journal Indexed in SCI)
- **Synthesis and Electrochemical Properties of Carbon-Mixed LiEr_{0.02}Fe_{0.98}PO₄ Cathode Material for Lithium-ion Batteries**
GÖKTEPE H., Sahan H., ÜLGEN A., PATAT Ş.
JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, vol.27, pp.861-864, 2011 (Journal Indexed in SCI)
- **A Novel Method to Improve the Electrochemical Performance of LiMn₂O₄ Cathode Active Material by CaCO₃ Surface Coating**
Sahan H., Goktepe H., PATAT Ş.
JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, vol.27, pp.415-420, 2011 (Journal Indexed in SCI)
- **Improvement of the electrochemical performance of LiMn₂O₄ cathode active material by lithium borosilicate (LBS) surface coating for lithium-ion batteries**
Sahan H., Goktepe H., PATAT Ş., ÜLGEN A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, pp.4235-4241, 2011 (Journal Indexed in SCI)
- **Effect of the Cr₂O₃ coating on electrochemical properties of spinel LiMn₂O₄ as a cathode material for lithium battery applications**
Sahan H., Goktepe H., PATAT Ş., ÜLGEN A.
SOLID STATE IONICS, vol.181, pp.1437-1444, 2010 (Journal Indexed in SCI)
- **Determination of Optimum Carbon Content of LiFePO₄ Cathode Material for Lithium Ion Batteries**
Goektepe H., Sahan H., PATAT Ş.
ASIAN JOURNAL OF CHEMISTRY, vol.21, pp.3186-3192, 2009 (Journal Indexed in SCI)
- **Enhanced cyclability of triple-metal-doped LiMn₂O₄ spinel as the cathode material for rechargeable lithium batteries**
Goktepe H., Sahan H., PATAT Ş., ÜLGEN A.
IONICS, vol.15, pp.233-239, 2009 (Journal Indexed in SCI)
- **Synthesis and cycling performance of double metal doped LiMn₂O₄ cathode materials for rechargeable lithium ion batteries**
Sahan H., Goktepe H., PATAT Ş.
INORGANIC MATERIALS, vol.44, pp.420-425, 2008 (Journal Indexed in SCI)
- **The effect of LBO coating method on electrochemical performance of LiMn₂O₄ cathode material**
Sahan H., Goktepe H., PATAT Ş., ÜLGEN A.
SOLID STATE IONICS, vol.178, pp.1837-1842, 2008 (Journal Indexed in SCI)
- **Total neutron diffraction: a route to the correct local structure of disordered LaMo₂O₅ and its application**

to the model compound Zn₂Mo₃O₈

Hibble S., Cooper S., Patat S., Hannon A.

ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE, vol.55, pp.683-697, 1999 (Journal Indexed in SCI)

- **Structure of LaMo₂O₅ containing both isolated Mo₆O₁₈ clusters and sheets of fused triangular Mo-3 clusters**
Hibble S., Cooper S., Hannon A., Patat S., McCarroll W.
INORGANIC CHEMISTRY, vol.37, pp.6839-6846, 1998 (Journal Indexed in SCI)
- **Crystal structures and electronic properties of UT_xNb_{3-x}O₁₀ (x=0,1/3,1) and of the intercalation compound Li_{0.9}UTiNb₂O₁₀**
Dickens P., Flynn G., Patat S., Stuttgart G.
JOURNAL OF MATERIALS CHEMISTRY, vol.7, pp.537-543, 1997 (Journal Indexed in SCI)
- **Synthesis and characterization of some cobalt(II), nickel(II) and zinc(II) complexes with Schiff bases derived from the reaction of 4-hydroxysalicylaldehyde and o-vanillin with 3,5-di(tert-butyl)-4-hydroxyaniline**
TUMER M., KOKSAL H., SERIN S., Patat S.
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.27, pp.59-68, 1997 (Journal Indexed in SCI)
- **Electron-topological investigation of the structure-antitubercular activity relationship of thiosemicarbazone derivatives**
Saripinar E., Guzel Y., Patat S., Yildirim I., AKCAMUR Y., DIMOGLO A.
ARZNEIMITTEL-FORSCHUNG/DRUG RESEARCH, vol.46, pp.824-828, 1996 (Journal Indexed in SCI)
- **Electronic-topological investigations of the relationship between chemical structure and ambergris odor**
Dimoglo A., Vlad P., Shvets N., Coltsa M., Guzel Y., Saracoglu M., Saripinar E., Patat S.
NEW JOURNAL OF CHEMISTRY, vol.19, pp.1217-1226, 1995 (Journal Indexed in SCI)
- **THERMOCHEMICAL AND ELECTROCHEMICAL STUDY OF SODIUM AND ZINC INSERTION INTO ALPHA-UO₃-Y AND ALPHA-U₃O₈**
DUEBER R., PATAT S., DICKENS P.
SOLID STATE IONICS, vol.80, pp.231-238, 1995 (Journal Indexed in SCI)
- **THEORETICAL INVESTIGATIONS ON THE MECHANISM OF INTERACTION OF 4-FORMYL FURAN-2,3-DIONE AND UREA**
YILDIRIM I., SARIPINAR E., GUZEL Y., PATAT S., Akçamur Y.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.334, pp.165-171, 1995 (Journal Indexed in SCI)
- **Electronic topological Investigations of the Relationship Between Chemical Structure and Ambergris Odor**
Dimoglo A., Vlad P., Natali S., Coltsa M., Güzel Y., Saraçoğlu M., Saripinar E., Patat Ş.
New Journal Of Chemistry, vol.19, pp.1217-1226, 1995 (Journal Indexed in SCI Expanded)
- **INTERCALATION COMPOUNDS OF SOME MIXED OXIDES OF URANIUM**
DICKENS P., STUTTARD G., DUEBER R., WOODALL M., PATAT S.
SOLID STATE IONICS, pp.417-423, 1993 (Journal Indexed in SCI)
- **STRUCTURE OF CUU₃O₁₀**
DICKENS P., STUTTARD G., PATAT S.
JOURNAL OF MATERIALS CHEMISTRY, vol.3, pp.339-341, 1993 (Journal Indexed in SCI)
- **THERMOCHEMICAL AND ELECTROCHEMICAL STUDY OF MAGNESIUM INSERTION INTO ALPHA-UO₃-X**
PATAT S., DUEBER R., DICKENS P.
SOLID STATE IONICS, vol.59, pp.151-155, 1993 (Journal Indexed in SCI)
- **POWDER NEUTRON-DIFFRACTION STUDY OF THE MIXED URANIUM VANADIUM-OXIDES CS₂(UO₂)₂(V₂O₈) AND UVO₅**
DICKENS P., STUTTARD G., BALL R., POWELL A., HULL S., PATAT S.
JOURNAL OF MATERIALS CHEMISTRY, vol.2, pp.161-166, 1992 (Journal Indexed in SCI)
- **The thermochemistry of LiCuO, Li₂CuO₂ and LiCu₂O₂**
Patat S., Blunt D., Chippindale A., Dickens P.

Refereed Congress / Symposium Publications in Proceedings

- **Electron-Topological (ET) Method and Experience of its Application to the Search of Odourant Compounds**
DİMOGLO A., Shvets N., GÜZEL Y., SARIPINAR E., PATAT Ş., YILDIRIM İ.
Proceeding of the 13th International Congress of Flavours, Fragrances and Essential Oils (ICEOFF'95), İstanbul, Turkey, 1 - 04 October 1995, no.3
- **QSAR investigations in the series of compounds possessing antibacterial features: electron-topological approach, (Barselona)**
DİMOGLO A., Shvets N., SARIPINAR E., GÜZEL Y., PATAT Ş., YILDIRIM İ.
10th European Symposium on structure-activity relationship: QSAR and Molecular Modelling, Barselona, 1 - 04 September 1994

Supported Projects

- PATAT Ş., TÜRKMEN A. R. , Project Supported by Higher Education Institutions, Biyokütlelerden Sodyum İyon Piller İçin Karbon Anot Geliştirme, 2018 - 2019
- PATAT Ş., MOHAMMED M., Project Supported by Higher Education Institutions, Bazı Tabakalı Çift Metal Hidroksit Kompozitlerin Sentezi, Karakterizasyonu ve Süperkapasitör Uygulamaları, 2017 - 2018
- PATAT Ş., AL-JANABİ I., SARIPINAR E., Project Supported by Higher Education Institutions, REACTION OF N-(AMINOAMIDINO)THIOUREA DERIVATIVES WITH DIMETHYLACETYLENE DICARBOXYLATE, 2017 - 2018
- PATAT Ş., KILIÇ DOKAN F., ÖZDEMİR N., Project Supported by Higher Education Institutions, Sodyum iyon pillerde kullanılan $O_3-NaNi_{1/3}Mn_{1/3}Fe_{1/3}O_2$ katot aktif maddesinin elektrokimyasal özelliğinin iyileştirilmesi, 2016 - 2018
- PATAT Ş., KILIÇ DOKAN F., SHOSHEN U., Project Supported by Higher Education Institutions, Sodyum iyon pillerde katot aktif madde olarak kullanılan tabakalı yapıdaki $P_2Na_{23}Ni_{13}Mn_{12}Ti_{16}O_2$ bileşiğinin elektrokimyasal özelliklerinin iyileştirilmesi, 2016 - 2017
- PATAT Ş., KILIÇ DOKAN F., ÖZDEMİR B., ÖZDEMİR N., Project Supported by Higher Education Institutions, Değişik Boyut ve Konfigürasyonlarda Lityum Pil Prototiplerinin Geliştirilmesi, 2015 - 2017
- PATAT Ş., ŞAHAN H., KILIÇ F., Project Supported by Higher Education Institutions, Elektrokimyasal Biriktirme Yöntemi İle MnO_2 Bileşiğinin Sentezi, Karakterizasyonu ve Süperkapasitör Özelliğinin İncelenmesi, 2012 - 2014
- PATAT Ş., KILIÇ F., VEZİROĞLU S., Project Supported by Higher Education Institutions, Şarj edilebilir Lityum Bataryalarda Katot Aktif Madde Olarak Kullanılan $LiMn_2O_4$ Bileşiğinin Çoklu Katyon Katkılaması ile Döngü Performansının İyileştirilmesi, 2012 - 2014
- PATAT Ş., KILIÇ F., ŞAHAN H., Project Supported by Higher Education Institutions, Lityum iyon pillerde anot aktif madde olarak kullanılan $Li_4Ti_5O_{12}$ bileşiğinin elektrokimyasal özelliklerinin iyileştirilmesi, 2010 - 2014
- PATAT Ş., ŞEN S., ŞAHAN H., Project Supported by Higher Education Institutions, Lityum İyon Pillerde Katot Aktif Madde Olarak Kullanılan $LiFePO_4$ Bileşiğinin İletkenliğinin Artırılması, 2010 - 2014
- PATAT Ş., AYDIN A., Project Supported by Higher Education Institutions, Süperkapasitörlerde Kullanılan $a-Co(OH)_2$ Bileşiğinin Sentezi, Karakterizasyonu ve Süperkapasitör Özelliğinin İyileştirilmesi, 2011 - 2013
- PATAT Ş., ŞAHAN H., AKKUŞ N., Project Supported by Higher Education Institutions, ŞARJ EDİLEBİLİR LİTYUM BATARYALARDA KATOT AKTİF MADDE OLARAK KULLANILAN $LiMn_2O_4$ BİLEŞİĞİNİN ÇOKLU KATYON KATKILAMA İLE DÖNGÜ PERFORMANSININ İYİLEŞTİRİLMESİ, 2009 - 2010
- PATAT Ş., GÖKTEPE H., ŞAHAN H., Project Supported by Higher Education Institutions, Cr_2O_3 Oksit Kaplama ile Katot Aktif $LiMn_2O_4$ Spinel Bileşiğinin Elektrokimyasal Kararlılığının Artırılması, 2008 - 2010
- PATAT Ş., ŞAHAN H., GÖKTEPE H., Project Supported by Higher Education Institutions, BAZI METAL OKSİT İÇERME BİLEŞİKLERİNİN SENTEZİ KAREKTERİZASYONU VE ELEKTROKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, 2007 - 2009
- GÜLDESTE A., ÜLGEN A., KARTAL Ş., PATAT Ş., Project Supported by Higher Education Institutions, ÇEŞİTLİ ÖRNEKLERDEKİ ESER DÜZEYDEKİ METALLERİN DALGABOYU AYIRMALI X-İŞINLARI FLORESANS SPEKTROSKOPİSİ (WD-XRF) İLE TAYİNLERİ, 2006 - 2009

PATAT Ş., KILIÇ F., ŞAHAN H., GÖKTEPE H., Project Supported by Higher Education Institutions, BAZI LİTYUM METAL VANADAT İÇERME BİLEŞİKLERİNİN SENTEZİ, 2007 - 2008

PATAT Ş., ŞAHAN H., Project Supported by Higher Education Institutions, LİTYUM İYON PİLLERDE KATOT AKTİF MADDE OLARAK KULLANILAN LİMN₂O₄ BİLEŞİĞİNİN ELEKTROKİMYASAL PERFORMANSININ ARTIRILMASI, 2006 - 2008

PATAT Ş., DEMİRAY M., Project Supported by Higher Education Institutions, BAZI METAL OKSİT İÇERME BİLEŞİKLERİNİN SENTEZİ VE KAREKTERİZASYONU, 2006 - 2007

PATAT Ş., ÖZAYHAN F., Project Supported by Higher Education Institutions, FİBER OPTİK REFLEKTANS SPEKTROMETRE İLE BOYALARIN SOLMA DAVRANIŞLARININ İNCELENMESİ., 2005 - 2006

Memberships / Tasks in Scientific Organizations

National Centre of Science and Technology Evaluation, Ministry of Education and Science, Republic of Kazakhstan, Member, 2020 - Continues

American Nano Society, Member, 2010 - Continues

COST NMPS Domain, Action No: MP1004 "Hybrid Energy Storage Devices and Systems for Mobile and Stationary Applications", Member, 2011 - 2015

Scientific Refereeing

MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, June 2020

JOURNAL OF SAUDI CHEMICAL SOCIETY, Journal Indexed in SCIE, May 2020

ELECTROCHIMICA ACTA, SCI Journal, April 2020

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EU Framework Program Project, H2020 Future & Emerging Technologies-Project, YESİLOVA HOLDING ANONİM SİRKETİ, Turkey, February 2020

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TUBİTAK Project, 1511 - TUBİTAK Priority Fields Research Technology Development and Innovation PDP, Erciyes Üniversitesi, Turkey, January 2019

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Scientific Consultations

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TÜBİTAK ÇPDK üye:1003-OTO-BTRY-2018-2 Uzun Menzilli Araç Batarya Yapı ve Sistemleri Geliştirilmesi, Scientific Consultancy, 2018 - 2018
Türkiye Bilimsel ve Teknik Araştırma Kurumu (TÜBİTAK) Marmara Araştırma Merkezi Enerji Enstitüsü, Project Consultancy, 2015 - 2017
KOSGEB, Scientific Consultancy, 2013 - 2013

Tasks In Event Organizations

Patat Ş., Electrochemistry Conferance 2019, Scientific Congress, İstanbul, Turkey, Ekim 2019
Patat Ş., INTERNATIONAL CONFERENCE ON CHEMICAL ENERGY AND SEMICONDUCTOR PHOTOCHEMISTRY (CESCOP), Scientific Congress, Trabzon, Turkey, Eylül 2019
Patat Ş., Third International Symposium on materials for Energy Storage and Conversion, Belgrade, Serbia, September 10-12th, 2018, Scientific Congress, Belgrade, Serbia And Montenegro, Eylül 2018
Patat Ş., IV. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'18), Scientific Congress, Eskişehir, Turkey, Eylül 2018

Scientific Research / Working Group Memberships

COST NMPS Domain, Action No: MP1004 "Hybrid Energy Storage Devices and Systems for Mobile and Stationary Applications", <https://cost1004.wttc.de>, Germany, <https://cost1004.wttc.de> , 2010 - 2015

Invited Congress and Symposium Activities

mESC-IS 2017, International Symposium on Materials for Energy Storage and Conversion., Session Moderator, Nevşehir, Turkey, 2017
mESC-IS 2015, International Symposium on Materials for Energy Storage and Conversion., Session Moderator, Ankara, Turkey, 2015
3rd International Advances In Applied Physics and Materials Science, Invited Speaker, Antalya, Turkey, 2013
XIX. Ulusal Kimya Kongresi, Session Moderator, İzmir, Turkey, 2005

Citations

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