

Prof. NİLHAN KAYAMAN APOHAN

Personal Information

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Biography

Prof. Dr. Nilhan Kayaman Apohan received her PhD degree in 1998 from Istanbul Technical University. She worked as an Expert Researcher in Marmara Research Center of TUBITAK for 4 years. She worked at the Conte Polymer Research Center of the University of Massachusetts as a visiting scientist during 6 months period between 1998-1999. In 2000, she joined to the Department of Organic Chemistry, Marmara University, as a professor. In 2013-2016, she served as the Vice Dean of the Faculty of Arts and Sciences. She has been serving as the Head of the Department of Chemistry since 2015. In 2016, she established the Interdisciplinary Polymer Science and Technology Graduate Program. She has over 2000 citations in over 120 SCI indexed journals. Her H-index is 27. Her expertise includes polymer chemistry, synthetic polymer based biomaterials, biodegradable polymers, hydrogels, membranes, nanocomposites, UV cured surface coatings, Hybrid coatings, high performance polymer materials.

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimyagerlik (YI) (Tezli), Turkey 1994 - 1998

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimyagerlik (YI) (Tezli), Turkey 1992 - 1994

Undergraduate, Marmara University, Atatürk Faculty of Education, Mathematics and Science Education, Turkey 1987 - 1992

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Theoretical and experimental investigations on the phase transitions of polymeric systems, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimyagerlik (YI) (Tezli), 1998

Postgraduate, Piridinyum tuzlarının serbest radikal fotobaslatıcı olarak kullanımı, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimyagerlik (YI) (Tezli), 1994

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2008 - Continues
Associate Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2002 - 2008
Assistant Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2000 - 2002

Academic and Administrative Experience

Marmara University, Faculty of Arts and Sciences, Chemistry, 2015 - Continues
Marmara University, Faculty of Arts and Sciences, 2013 - 2016
Marmara University, Faculty of Arts and Sciences, Chemistry, 2012 - 2015
Marmara University, Faculty of Arts and Sciences, Chemistry, 2010 - 2012

Courses

Polymer Chemistry, Undergraduate, 2018 - 2019
Polymer Photochemistry, Postgraduate, 2018 - 2019
Polymer Chemistry and applications, Undergraduate, 2018 - 2019
Introduction to Polymer Chemistry, Undergraduate, 2018 - 2019
Synthetic Biopolymers, Doctorate, 2018 - 2019
Polymer Characterization, Postgraduate, 2018 - 2019
Fundamentals of Polymer Chemistry, Postgraduate, 2018 - 2019

Advising Theses

Kayaman Apohan N., Poliaspartik Esterler ile Biobazlı Poliürea Kaplamaların Sentezi ve Karakterizasyonu, Doctorate, S.Dural(Student), Continues
Oktay B., Kayaman Apohan N., Enerji Depolama Sistemleri için Fonksiyonel Nano-yapıların Tasarımı, Postgraduate, İ.Cenik(Student), 2023
Kayaman Apohan N., Kendi kendini onarabilen yara örtücü biyomalzemelerin geliştirilmesi, Doctorate, M.YAŞAR(Student), 2023
Kayaman Apohan N., Kazan D., Biyobozunur Bakteriyel Selüloz-Hyalüronik Asit Doku İskelelerinin Çıt-Çıt Reaksiyonları ile Sentezi ve Uygulamaları, Postgraduate, Ş.Turan(Student), 2022
Kayaman Apohan N., Biyo-esaslı epoksi-nanokompozit kaplamalar, Postgraduate, S.ERAL(Student), 2022
Oktay B., Kayaman Apohan N., İyonik Sıvı Destekli PVDF Polielektrolitlerin Kontrollü Polimerizasyon ile Hazırlanması ve Karakterizasyonu, Postgraduate, B.Bekdaş(Student), 2021
Oktay B., Kayaman Apohan N., Çekirdek Kabuk Tipi Poliakrilat Hidroksi Apatit İlaç Taşıyıcıların Kontrollü Polimerizasyon ile Sentezi ve Karakterizasyon Çalışmaları, Postgraduate, G.Koçal(Student), 2020
Kayaman Apohan N., Sentez gazından hafif olefin üretimine yönelik inorganik ve polimerik destekli demir ve demir borid katalizörlerin geliştirilmesi, Postgraduate, M.TUPTUP(Student), 2020
Madakbaşı S., Kayaman Apohan N., KENDİ KENDİNİ ONARABİLEN POLİÜRETAN NANOKOMPOZİT KAPLAMALARIN SENTEZİ VE KARAKTERİZASYONU, Postgraduate, S.AKHAN(Student), 2019
KAYAMAN APOHAN N., Yüksek sıcaklığa dayanıklı polimerlerle modifiye edilmiş seramer (ceramer) malzemeler ve uygulamaları, Doctorate, M.Hulusi(Student), 2019
KAYAMAN APOHAN N., GENÇOĞLU E. N., Yeni polimerik fotobaşlatıcılar kullanarak basılabilir düşük migrasyonlu vernik ve lak üretimi, Doctorate, E.ARMAN(Student), 2018

KAHRAMAN M. V., KAYAMAN APOHAN N., Moleküler baskılanmış polimer nanopartiküllerin sentezi ve karakterizasyonu, Postgraduate, M.YAŞAR(Student), 2016

KAYAMAN APOHAN N., Yüksek performanslı polimid nanofiberlerin hazırlanması ve lityum iyon pillerde elektrolit olarak kullanımı, Postgraduate, E.Aytan(Student), 2016

KAYAMAN APOHAN N., Kitosan-ko-Hyaluronik asit kriyojellerinin hazırlanması ve karakterizasyonu, Postgraduate, T.KUTLUSOY(Student), 2016

KAYAMAN APOHAN N., Yüksek performanslı poliimid nanofiberlerin hazırlanması ve lityum iyon pillerde elektrolit olarak kullanımı, Postgraduate, E.AYTAN(Student), 2016

KAYAMAN APOHAN N., POLİİMİD ESASLI YÜKSEK PERFORMANSLI YENİ POLİMERLERİN SENTEZİ VE UYGULAMALARI, Doctorate, R.DENİZ(Student), 2016

KAYAMAN APOHAN N., Yüksek performanslı poliimit ve dolgu malzemeleri takviyeli polimer türevlerinin sentezi, karakterizasyonu ve membran teknolojisindeki uygulamaları, Doctorate, M.BİÇEN(Student), 2015

KAYAMAN APOHAN N., Elektrosipin tekniği ile hazırlanan biyopolimer nanofiberlerin yüzey modifikasyonları ve uygulamaları, Doctorate, B.OKTAY(Student), 2015

ABDURRAHMANOĞLU S., KAYAMAN APOHAN N., Organik-inorganik hibrit hidrojellerin hazırlanması ve karakterizasyonu, Postgraduate, Ö.DOĞRU(Student), 2014

KAYAMAN APOHAN N., Karbon nanotüp içeren UV ışınlarıyla kürlenmiş nanokompozit kaplamalar, Postgraduate, K.İLGÜN(Student), 2014

KAYAMAN APOHAN N., Su bazlı poliüretan-akrilik-silika hibrit emülsiyonlarının sentezi ve karakterizasyonu, Postgraduate, H.SAVAŞ(Student), 2014

KAYAMAN APOHAN N., Manyetik nanopartikül içeren biyoparçalanabilen ilaç salınım sistemlerinin sentezi ve karakterizasyonu, Postgraduate, T.BİÇER(Student), 2014

KAYAMAN APOHAN N., Polimer elektrolit membranlı yakıt pili uygulamaları için poli(arilen eter) esaslı membranların hazırlanması, Doctorate, M.GÜRTEKİN(Student), 2013

KAYAMAN APOHAN N., Poli(alfa-hidroksi ester üretan) esaslı biyobozunur polimerlerin sentezi ve karakterizasyonu, Postgraduate, Ç.ÇİÇEK(Student), 2012

KAYAMAN APOHAN N., KAHRAMAN M. V., Termoplastik poliüretan sentezi ve kompozit hazırlama uygulamaları, Doctorate, Z.ALTINTAŞ(Student), 2012

KAYAMAN APOHAN N., Fosfin oksit içeren poliüretan-silika nanokompozitler ve kaplama performanslarının incelenmesi, Doctorate, Z.HOŞGÖR(Student), 2011

KAYAMAN APOHAN N., Gümüş nanoparçacıkları içeren antimikrobiyal organik-inorganik hibrit kaplamaların hazırlanması ve karakterizasyonu, Postgraduate, B.OKTAY(Student), 2011

KAYAMAN APOHAN N., Termoplastik polyester elastomerlerin sentezi ve karakterizasyonu, Postgraduate, Ş.PAÇA(Student), 2011

KAYAMAN APOHAN N., Protein konjüasyonu - yeni bir formülasyon çalışması, Postgraduate, F.ÖZYÜREK(Student), 2010

KAYAMAN APOHAN N., Apohan N., Protein konjüasyonu yeni bir formülasyon çalışması, Postgraduate, F.Özyürek(Student), 2010

KAYAMAN APOHAN N., B-siklodekstrin içeren biyobozunur hidrojellerin sentezi ve ilaç salım özelliklerinin incelenmesi, Postgraduate, E.AKYÜREK(Student), 2010

KAYAMAN APOHAN N., β - siklodekstrin içeren biyobozunur hidrojellerin sentezi ve ilaç salım özelliklerinin incelenmesi, Postgraduate, E.Akyürek(Student), 2010

KAHRAMAN M. V., KAYAMAN APOHAN N., 4-akrilomorfolin esaslı hidrojellerin sentezi ve ilaç salım kinetiğinin incelenmesi, Postgraduate, H.EFE(Student), 2010

KAYAMAN APOHAN N., Doku mühendisliğinde kullanılacak yeni polimerik biyomalzemelerin geliştirilmesi, Doctorate, Z.SEDEN(Student), 2009

KAYAMAN APOHAN N., Uv ışınları ile sertleşebilen aşınma ve yanma dayanımlı, nanokompozit kaplamaların hazırlanması ve antimikrobiyal özelliklerinin incelenmesi, Postgraduate, R.DENİZ(Student), 2009

KAYAMAN APOHAN N., Maleid imid modifiye reçinelerin sentezi ve kaplama uygulamaları, Postgraduate, Z.ALTINTAŞ(Student), 2008

KAYAMAN APOHAN N., UV-ışınlarla sertleştirilebilen silika modifiye polielektrolit membranların sentezi ve karakterizasyonu, Postgraduate, M.GÜRTEKİN(Student), 2008

KAYAMAN APOHAN N., İners-süspansiyon polimerizasyonu yöntemiyle sentezlenen mikrokürelerin karakterizasyonu ve ilaç salınımı çalışmaları, Postgraduate, Z.NART(Student), 2008

KAYAMAN APOHAN N., İners-süspansiyon polimerizasyon yöntemiyle hazırlanan mikrokürelerin karakterizasyonu ve ilaç salınımı çalışmaları, Postgraduate, Z.Nart(Student), 2008

KAYAMAN APOHAN N., Epoksi silika nanokompozitler ve kaplama performansının incelenmesi, Postgraduate, D.İŞİN(Student), 2008

KAYAMAN APOHAN N., Epoksi/silika nanokompozitler ve kaplama performanslarının incelenmesi, Postgraduate, D.İşin(Student), 2008

Apohan K., Poliüretan/silika nanokompozitler ve kaplama performanslarının incelenmesi, Postgraduate, O.Türünç(Student), 2007

KAYAMAN APOHAN N., UV ısınları ile sertleşebilen sol-jel kaplamalarda yanmazlık geciktirici fosfin oksit bazlı reçinelerin etkisinin incelenmesi, Postgraduate, B.BİLEN(Student), 2007

KAYAMAN APOHAN N., Suda az çözünen ilaçların siklodekstrin modifiye hidrojeller ile taşınımı, Postgraduate, N.BORA(Student), 2006

KAYAMAN APOHAN N., pH ve sıcaklığa duyarlı faz geçişi gösteren iç içe girmiş polimerik ağ yapılarının sentezi ve karakterizasyonu, Postgraduate, Z.SEDEN(Student), 2005

KAYAMAN APOHAN N., Cam küre, CaCO₃ ve talk dolgulu polipropilen hibrit konpozitlerin mekanik ve fiziksel özelliklerinin incelenmesi, Postgraduate, Y.KANSU(Student), 2005

KAYAMAN APOHAN N., Cam küre, CaCO₃ ve talk dolgulu polipropilen hibrit kompozitelerin mekanik ve fiziksel özelliklerinin incelenmesi, Postgraduate, Y.Kansu(Student), 2005

KAYAMAN APOHAN N., UV-ışınları ile sertleşebilen fosfin oksit bazlı reçinelerin sentezi, karakterizasyonu ve sol-jel kaplamalarda kullanımı, Postgraduate, Z.HOŞGÖR(Student), 2004

KAYAMAN APOHAN N., Radikalik UV polimerizasyon ile siloksan modifiye edilmiş bisfenol A ve/veya 6F bisfenol A hibrit kaplamaların hazırlanması, karakterizasyonu ve uygulamaları, Postgraduate, M.KUĞU(Student), 2004

KAYAMAN APOHAN N., UV-ışınları ile sertleşebilen siloksan içeren vinil eter bazlı reçinelerin sentezi ve karakterizasyonu, Postgraduate, F.BETÜL(Student), 2003

KAYAMAN APOHAN N., UV-ışınları ile sertleşebilen akrilat/vinil eter bazlı iç içe girmiş polimerik ağ yapıların (IPN) sentezi ve karakterizasyonu, Postgraduate, R.DEMİRCİ(Student), 2003

KAYAMAN APOHAN N., L-Laktik asit, glikolik asit ve 2,2'-bis(hidroksimetil propionik asit) içeren terpolimerlerinin sentezi ve karakterizasyonu, Postgraduate, E.ÖZALTIN(Student), 2003

KAYAMAN APOHAN N., L-Laktik asit, glikolik asit ve 2,2'-bis(hidroksimetil propionik asit) içeren terpolimerinin sentezi ve karakterizasyonu, Postgraduate, E.Özaltın(Student), 2003

Designed Programs

Kayaman Apohan N., Undergraduate Double Major, Polymer Science and Technology Graduate Program, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Preparation of organic-inorganic bio-based epoxy coatings with high anti-corrosive performance**
Eral S., OKTAY B., Dizman C., KAYAMAN APOHAN N.
Polymer Bulletin, vol.81, no.8, pp.6873-6890, 2024 (SCI-Expanded)
- II. **Development of Bacterial Cellulose-Hyaluronic Acid Multicomponent Hydrogels via Click Chemistry for Biomedical Applications**
Kayaman Apohan N., Oktay B., Kazan D., Okulmuş Turan Ş.
POLYMER SCIENCE - SERIES A, vol.65, no.6, pp.682-691, 2024 (SCI-Expanded)
- III. **Improving the mechanical, thermal and surface properties of polyaspartic ester bio-based polyurea coatings by incorporating silica and titania**

Dural S., Camadanlı S., Kayaman Apohan N.

Materials Today Communications, vol.38, 2024 (SCI-Expanded)

- IV. **Salt Spray Resistant Acrylic Copolymers Containing Bio-based Cardanol Molecules with Hybrid Thermoplastic-Thermoset Characteristics**
Dizman C., Eral S., Babayiğit L., KAYAMAN APOHAN N.
Journal of Polymers and the Environment, 2024 (SCI-Expanded)
- V. **Effect of quince seed gum (QSG) on the performance of injectable hyaluronic acid hydrogels in terms of the rheological, morphological, and mechanical aspect**
Kolay S., KAYAMAN APOHAN N., Babuç E., Gün G.
Turkish Journal of Chemistry, vol.48, no.3, pp.422-435, 2024 (SCI-Expanded)
- VI. **Vegetable oil-based epoxy coating materials for self-healing and anticorrosive applications**
Oktay B., Türkcan J. H., Özdemir O. K., Kayaman Apohan N.
Macromolecular Research, vol.31, no.11, pp.1077-1086, 2023 (SCI-Expanded)
- VII. **Molecular weight controlled sulfonated Poly(Arylene Ether)s and sulfonated Poly(Ether Ether ketone) polymer blends for fuel cell applications**
Seden M. G., Baştürk E., İnan T. Y., Kayaman Apohan N., Güngör A.
International Journal of Hydrogen Energy, vol.48, no.85, pp.33297-33314, 2023 (SCI-Expanded)
- VIII. **Development of self-healing vanillin/PEI hydrogels for tissue engineering**
Yasar M., Oktay B., Dal Yontem F., Haciosmanoglu Aldogan E., Kayaman Apohan N.
European Polymer Journal, vol.188, 2023 (SCI-Expanded)
- IX. **Molecularly imprinted nanoparticles with recognition properties towards diphtheria toxin for ELISA applications**
Alkanlı S. S., Dal Yöntem F., Yaşar M., Güven C., Kahraman M. V., Kayaman Apohan N., Aktaş Z., Öncül M. O., Ünlü A., Akçakaya H.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.34, no.6, pp.753-767, 2023 (SCI-Expanded)
- X. **Poly(lactic acid) nanofibers containing phosphorylcholine grafts for transdermal drug delivery systems**
OKTAY B., Eroglu G. O., DEMİR S., KURUCA D. S., KAYAMAN APOHAN N.
MATERIALS TODAY SUSTAINABILITY, vol.18, 2022 (SCI-Expanded)
- XI. **Isosorbide, pyrogallol, and limonene-containing thiol-ene photocured bio-based organogels for the cleaning of artworks**
Cakmak Y., Çakmakçı E., Kayaman Apohan N., Karadag R.
JOURNAL OF CULTURAL HERITAGE, vol.55, pp.391-398, 2022 (SCI-Expanded)
- XII. **Biodegradable Polyurethane Solid-Solid Phase Change Materials**
Oktay B., Kayaman Apohan N.
ChemistrySelect, vol.6, no.24, pp.6280-6285, 2021 (SCI-Expanded)
- XIII. **Poly(2,6-diphenyl-p-phenylene oxide) supported iron catalysts for the synthesis of lower olefins via Fischer-Tropsch reaction**
Tuptup M., Kayaman Apohan N., Ozkara-Sarioğlan S., Unveren E., Atac O., Sarioğlan A.
REACTION KINETICS MECHANISMS AND CATALYSIS, vol.132, pp.695-715, 2021 (SCI-Expanded)
- XIV. **Stimuli-responsive smart nanoparticles with well-defined random and triblock terpolymers for controlled release of an anticancer drug**
Koçal G., Oktay B., Eroğlu G. Ö., Kuruca S. E., Çubuk S., Kayaman Apohan N.
Materials Today Communications, vol.26, 2021 (SCI-Expanded)
- XV. **Polyurethane graphene nanocomposites with self-healing properties by azide-alkyne click reaction**
Akhan S., Oktay B., Özdemir O. K., Madakbaş S., Kayaman Apohan N.
Materials Chemistry and Physics, vol.254, 2020 (SCI-Expanded)
- XVI. **Polymeric nanoparticles for selective protein recognition by using thiol-ene miniemulsion photopolymerization**
Yaşar M., Dal Y., Kahraman M. V., Kayaman A., Aktaş Z., Öncül M., Akçakaya H.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.31, pp.2044-2059, 2020 (SCI-Expanded)

- XVII. Immobilization of pectinase on polyethyleneimine based support via spontaneous amino-yne click reaction**
OKTAY B., DEMİR S., Kayaman-Apohan N.
Food and Bioproducts Processing, vol.122, pp.159-168, 2020 (SCI-Expanded)
- XVIII. Synthesis, characterization, and ionic conductivity of electrospun organic-inorganic hybrid gel electrolytes**
Aytan E., Ugur M. H., KAYAMAN APOHAN N.
POLYMER ENGINEERING AND SCIENCE, vol.60, no.3, pp.619-629, 2020 (SCI-Expanded)
- XIX. Development of nanofiber based immunosorbent surface for the removal of fluoxetine from breast milk**
Tunali-Akbay T., Kahraman M. V., Oktay B., İpekçi H., Kayaman Apohan N.
International Journal of Polymeric Materials and Polymeric Biomaterials, vol.68, no.16, pp.947-955, 2019 (SCI-Expanded)
- XX. Stimuli-responsive poly(hydroxyethyl methacrylate) hydrogels from carboxylic acid-functionalized crosslinkers**
Bingol H. B., Agopcan-Cinar S., Bal T., Oran D. C., Kizilel S., Kayaman-Apohan N., Avci D.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.107, no.9, pp.2013-2025, 2019 (SCI-Expanded)
- XXI. The Synthesis of New Type II Polymeric Photoinitiator (thioxantone) via Atom Transfer Radical Polymerization and Their Curing and Migration Studies**
Kandirmaz E., Gençoğlu E. N., Apohan N.
MACROMOLECULAR RESEARCH, vol.27, pp.756-763, 2019 (SCI-Expanded)
- XXII. Preparation of a Poly(ethylene glycol)-Based Cross-Linked Network from a Click Reaction for Enzyme Immobilization**
Oktay B., Demir S., Kayaman Apohan N.
CHEMISTRYSELECT, vol.4, no.20, pp.6055-6059, 2019 (SCI-Expanded)
- XXIII. Designing Coconut Oil Encapsulated Poly(stearyl methacrylate-co-hydroxyethyl metacrylate) Based Microcapsule for Phase Change Materials**
OKTAY B., Basturk E., KAHRAMAN M. V., Apohan N.
CHEMISTRYSELECT, vol.4, no.17, pp.5110-5115, 2019 (SCI-Expanded)
- XXIV. Preparation of poly (bis[2-(methacryloyloxy)ethyl] phosphate) crosslinked polymer brushes on Poly(vinylidene fluoride) nanofibers**
Oktay B., Ugur M. H., Kayaman Apohan N.
MATERIALS CHEMISTRY AND PHYSICS, vol.217, pp.168-174, 2018 (SCI-Expanded)
- XXV. Naphthalene-based polyimide electrolytes for lithium-ion battery applications**
Ozturk R. D. T., Ugur M. H., Gungor A., KAYAMAN APOHAN N.
ADVANCES IN POLYMER TECHNOLOGY, vol.37, no.5, pp.1356-1365, 2018 (SCI-Expanded)
- XXVI. Preparation and thermal properties of Alkoxy Silane functionalized polyether sulfone/well-defined poly(trimethoxysilyl) propyl methacrylate-based hybrid materials**
OKTAY B., Basturk E., KAHRAMAN M. V., KAYAMAN APOHAN N.
POLYMER ENGINEERING AND SCIENCE, vol.58, no.8, pp.1346-1352, 2018 (SCI-Expanded)
- XXVII. Surface properties of sol-gel-based fluorine-containing ceramic coatings**
Ugur M. H., ÇAKMAKÇI E., Gungor A., KAYAMAN APOHAN N.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.87, no.1, pp.113-124, 2018 (SCI-Expanded)
- XXVIII. Preparation of novel thioxanthone based polymeric photoinitiator for flexographic varnish and determination of their migration behaviour**
Kandirmaz E., Apohan N., GENÇOĞLU E. N.
PROGRESS IN ORGANIC COATINGS, vol.119, pp.36-43, 2018 (SCI-Expanded)
- XXIX. Thiol-yne photo-clickable electrospun phase change materials for thermal energy storage**
OKTAY B., Basturk E., KAHRAMAN M. V., Apohan N.
REACTIVE & FUNCTIONAL POLYMERS, vol.127, pp.10-19, 2018 (SCI-Expanded)
- XXX. Methacrylate Functionalized MWCNTs/PDMS-Polyurethane Methacrylate UV-Curable**

Nanocomposites

İlgün K., Oktay B., Kayaman Apohan N.

JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, pp.1235-1245, 2018 (SCI-Expanded)

- XXXI. **Magnetic nanoparticle containing thiol-ene crosslinked hydrogels for controlled and targeted release of hydrophobic drugs**
Oktay B., Demir S., Kayaman Apohan N.
POLYMER COMPOSITES, vol.39, 2018 (SCI-Expanded)
- XXXII. **Highly thermally resistant, hydrophobic poly(vinyl alcohol)-silica hybrid nanofibers**
Ugur M. H., OKTAY B., Gungor A., KAYAMAN APOHAN N.
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.83, pp.885-897, 2018 (SCI-Expanded)
- XXXIII. **Preparation and modification of polyethersulfone-based hybrid materials**
OKTAY B., Baştürk E., KAHRAMAN M. V., KAYAMAN APOHAN N.
Spe Journal, 2018 (SCI-Expanded)
- XXXIV. **Facile fabrication and characterization of polyimide nanofiber reinforced photocured hybrid electrolyte for Li-ion batteries**
Aytan E., Ugur M. H., KAYAMAN APOHAN N.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.28, no.12, pp.1951-1960, 2017 (SCI-Expanded)
- XXXV. **Chitosan-co-Hyaluronic acid porous cryogels and their application in tissue engineering**
Kutlusoy T., OKTAY B., KAYAMAN APOHAN N., Silleymanoglu M., Kuruca S. E.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.103, pp.366-378, 2017 (SCI-Expanded)
- XXXVI. **Thermal, physical, structural, thermomechanical features and single gas permeation comparison of fluorine, phenyl phosphine oxide-based copolyimides with poly(dimethylsiloxane)**
Bicen M., KARATAŞ S., KAYAMAN APOHAN N., Gungor A.
POLYMER BULLETIN, vol.74, no.6, pp.2217-2244, 2017 (SCI-Expanded)
- XXXVII. **Zwitterionic phosphorylcholine grafted chitosan nanofiber: Preparation, characterization and in-vitro cell adhesion behavior**
Oktay B., Kayaman Apohan N., Suleymanoglu M., Erdem-Kuruca S.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.73, pp.569-578, 2017 (SCI-Expanded)
- XXXVIII. **Role of polydimethylsiloxane in properties of ternary materials based on polyimides containing zeolite Y**
Bicen M., KARATAŞ S., KAYAMAN APOHAN N., Gungor A.
CHEMICAL PAPERS, vol.70, no.7, pp.960-972, 2016 (SCI-Expanded)
- XXXIX. **The effect of surface modification of zeolite 4A on the physical and electrical properties of copolyimide hybrid films**
Bicen M., KAYAMAN APOHAN N., KARATAŞ S., DUMLUDAĞ F., Gungor A.
MICROPOROUS AND MESOPOROUS MATERIALS, vol.218, pp.79-87, 2015 (SCI-Expanded)
- XL. **Fluorine-Containing Photocurable Hybrid Coatings via Anhydrous Sol-Gel Method**
Cakmakci E., Altintas Z., KAHRAMAN M. V., Apohan N.
JOURNAL OF VINYL & ADDITIVE TECHNOLOGY, vol.21, no.4, pp.272-277, 2015 (SCI-Expanded)
- XLI. **Phosphoric acid functional UV-cured proton conducting polymer membranes for fuel cells**
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