

Prof. MURAT ŞEN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: G-9303-2013

Yoksis Researcher ID: 7819

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Abd, Turkey 1988 - 1993

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Abd, Turkey 1985 - 1988

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Bölümü, Turkey 1980 - 1985

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Material science and engineering, Composites, Polymeric Materials, Nanomaterials, Cellulosic Materials, Chemistry, Physical Chemistry, Conductive Polymers, Rubber Industry, Characterization of Polymers, New Technologies in Polymer Chemistry, Polymeric Adsorbents, Polymeric Materials, Medical Applications of Polymers, Recycling of Polymers, Cellulose and its Derivatives, High Performance Polymers, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2007 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2002 - 2007

Assistant Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1996 - 2002

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1985 - 1996

Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilimi Ve Teknolojisi (YI) (Tezli), 2014 - Continues

Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2009 - 2018

Hacettepe Üniversitesi, Fen Fakültesi, 2014 - 2015

Courses

Polimerlerin Karakterizasyonu ve Analizi, Postgraduate, 2017 - 2018

Polimer Karakterizasyon Laboratuvarı, Postgraduate, 2017 - 2018

Polimer Kimyası I, Undergraduate, 2017 - 2018

Advising Theses

Şen M., İYONLAŞTIRICI RADYASYONUN FARKLI AJANLARLA KÜRLENMİŞ POLİ(EPİKLOROHİDRİN-KO-ETİLEN OKSİT-KO-ALLİL GLİSİDİL ETER) (GECO) BAZLI ELASTOMERLERİN ENERJİ SÖNÜMLEME ÖZELLİKLERİ ÜZERİNDEKİ ETKİSİNİN ARAŞTIRILMASI, Postgraduate, P.TONKA(Student), 2023

Şen M., Karbon siyahı tipinin ve vulkanizasyon sisteminin yeni nesil etilen propilen dien monomer (EPDM) elastomerlerinin statik ve dinamik mekanik özelliklerine etkisi, Doctorate, Y.DURMUŞ(Student), 2022

Şen M., Doğal kauçuk/bütadien kauçuk esashı elastomerik malzemelerin hazırlanması, karakterizasyonu ve raylı sistem araçlarında birincil süspansiyon titreşim sönümleme elemanı olarak kullanımının incelenmesi, Postgraduate, E.FATMA(Student), 2022

Şen M., IZOD darbe testi cihazının tasarıımı ve plastik testlerinde kullanılması, Postgraduate, E.ALPEREN(Student), 2022

, Şen M., Florosilikon kauçüğünün kür koşullarının optimizasyonu, Postgraduate, E.KÖSE(Student), 2022

Şen M., Yüksek sönümleme özelliğine sahip epiklorohidrin esashı elastomerlerin hazırlanması ve karakterizasyonu, Postgraduate, O.SOYDAŞ(Student), 2021

Şen M., Sıcaklık taramalı gerilim gevşemesi (TSSR) yöntemi ile vinil metil silikon (VMQ) elastomerinin çapraz bağ yoğunluğunun belirlenmesini sınırlayan koşullar, Postgraduate, Ş.MERVE(Student), 2021

Şen M., Demattia-esnek çatlama test cihazının tasarıımı ve elastomerler testlerinde kullanılması, Postgraduate, E.ÜMİTCAN(Student), 2020

Şen M., Silikon elastomerlerin sönümleme özelliğini kontrol eden yapısal parametrelerin belirlenmesi, Postgraduate, G.BİRİNCİ(Student), 2020

Şen M., Geri sekme esnekliği ölçüm cihazı tasarıımı ve elastomer testlerinde kullanılması, Postgraduate, S.FATİH(Student), 2020

Şen M., Silikon elastomerlerin ömrü süresine etki eden parametrelerin belirlenmesi, Postgraduate, M.MELİKE(Student), 2020

Şen M., Farklı ko-ajanlar varlığında kürleştirilmiş silikon elastomerlerin özelliklerine iyonlaştırıcı radyasyonun etkisi, Doctorate, D.AKSÜT(Student), 2020

Şen M., Doğal kauçuk esashı atık lateks eldiven ve poli(etilen-ko-vinil asetat) kullanılarak yeni termoplastik elastomer kompozitlerin hazırlanması ve sönümleme özelliklerinin incelenmesi, Postgraduate, S.AHİ(Student), 2019

Şen M., EPDM elastomerlerinin gerilme durulma davranışlarını kontrol eden parametrelerin belirlenmesi, Postgraduate, S.CANAN(Student), 2019

ŞEN M., Silikon Elastomerlerin Durulma Özelliklerine Hızlandırıcı Tipinin ve Oranının Etkisi, Postgraduate, E.KAYMAZLAR(Student), 2018

Şen M., Dİ (2-Etilheksil) fitalat baskılı polimerlerin PE/PP dokumasız kumaşlara iyonlaştırıcı radyasyon kullanılarak aşılanması, Postgraduate, B.AYDEMİR(Student), 2018

Şen M., Silikon elastomerlerin durulma özelliklerini kontrol eden parametrelerin belirlenmesi, Postgraduate, M.PARLAK(Student), 2018

Şen M., Silikon sünger kauçüğün hazırlanması içiňoptimum proses koşullarının belirlenmesi, Postgraduate, E.EREFE(Student), 2018

ŞEN M., İyonlaştırıcı radyasyonla ksantan sakızı esashı süper emici polimerlerin hazırlanması, Doctorate, H.HAYRABOLULU(Student), 2017

ŞEN M., Yüksek yoğunluklu polietilen-hidroksiapatit (YPE-HA) nanokompozit sistemlerinin hazırlanması ve karakterizasyonu, Postgraduate, E.KARACA(Student), 2017

ŞEN M., Determination of the effect of accelerator type and accelerator/sulfur ratio on the vulcanization kinetics and aging properties of natural rubber/chloroprene based rubber compounds, Doctorate, F.AHMADZADEH(Student), 2017

ŞEN M., Epoksi-fonksiyonelli silikat içerikli polimer nanokompozitlerin sentezi ve karakterizasyonu, Postgraduate,

K.ŞERİFE(Student), 2015

ŞEN M., Kitosanın radyasyonla bozunmasına deasetilizasyon derecesinin etkisi, Postgraduate, P.TAŞKIN(Student), 2015

ŞEN M., Doğal kauçuk/bütadien kauçuk esaslı silecek lastiği malzemelerinin hazırlanması ve karakterizasyonu,

Postgraduate, A.BABAPOUR(Student), 2013

ŞEN M., Doğal kauçuk/kloropren esaslı silecek lastiği malzemelerinin hazırlanması ve karakterizasyonu, Postgraduate, E.DİKİCİER(Student), 2013

ŞEN M., Yakıt hücresi uygulamaları için stiren-(etilen-bütilen)-stiren (SEBS) esaslı kompozit polielektritolit membran geliştirilmesi, Doctorate, K.POLAT(Student), 2013

ŞEN M., Akrilik asit sodyum tuzu / keçiboynuzu çekirdeği sakızı yarı içe geçmiş ağ yapılarının radyasyonla sentezi ve süper emici davranışlarının incelenmesi, Postgraduate, H.HAYRABOLULU(Student), 2011

ŞEN M., Hidrojellerde adsorplanan ve absorplanan suyun yapısının incelenmesi, Postgraduate, H.YÖNDEMELİ(Student), 2009

ŞEN M., Enhancement of compatibility of polyethylene/polyvinyl acetate blends by irradiation of polyethylene, Postgraduate, Z.YILMAZ(Student), 2007

Şen M., Investigation of gamma rays induced degradation mechanism of polysaccharides, Postgraduate, D.TOPRAK(Student), 2006

Şen M., Synthesis and characterization of macroporous poly(dimethylamino ethyl methacrylate) hydrogels by enhanced phase separation, Postgraduate, O.AGUŞ(Student), 2005

Şen M., Preparation of poly(n-vinyl-2-pyrrolidone)/kappa-carrageenan hydrogels by ionizing radiation, Postgraduate, E.NAZAN(Student), 2003

Şen M., Ageing characteristics of ethylene-vinyl acetate copolymer and ethylene-vinyl acetate/ carbon black mixture, Postgraduate, M.ÇOPUROĞLU(Student), 2001

Şen M., Radiation synthesis and characterization of cationic poly (N,N-dimethylaminoethyl methacrylate/N-vinyl 2-pyrrolidone/ethylene glycol dimethacrylate) hydrogels, Postgraduate, M.SARI(Student), 2000

Şen M., Radiation synthesis and characterization of poly(N-vinyl 2-pyrrolidone/itaconic acid/ethylene glycol dimethacrylate) hydrogels and their use in the drug delivery systems, Postgraduate, A.YAKAR(Student), 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Effect of silica type, content, and silanization on the curing, mechanical and energy dissipation properties of poly (epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) elastomers
Babapour A., ŞEN M.
European Polymer Journal, vol.206, 2024 (SCI-Expanded)
- II. Effect of ionizing radiation on mechanical and damping properties of phenyl-vinyl-methyl-polysiloxane elastomers cured with platinum
Esin Z. Ç., ŞEN M.
Polymers for Advanced Technologies, vol.35, no.1, 2024 (SCI-Expanded)
- III. Identification of the effect of ionizing radiation on epichlorohydrin-based homo-, co-, and terpolymers
Şen M., Çınar Esin Z., Aksüt D.
RADIATION PHYSICS AND CHEMISTRY, vol.206, no.1, pp.1-9, 2023 (SCI-Expanded)
- IV. Design and Characterization of Carboplatin and Paclitaxel Loaded PCL Filaments for 3D Printed Controlled Release Intrauterine Implants
Varan C., Aksüt D., Şen M., Bilensoy E.
PHARMACEUTICS, vol.15, no.4, pp.1-17, 2023 (SCI-Expanded)
- V. Preparation and characterization of high damping poly(epichlorohydrin) and poly(epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) elastomers: I. Effect of curing system and blending on the damping properties
ŞEN M., Soydaş O., AKSÜT D.
Reactive and Functional Polymers, vol.184, 2023 (SCI-Expanded)

- VI. **Influence of micro crystalline cellulose on EPDM-based automotive sealing profile**
POYRAZ B., Guner Y., Yardim T., YAMANOĞLU R., TOZLUOĞLU A., DURMUŞ S., ŞEN M.
JOURNAL OF ELASTOMERS AND PLASTICS, vol.55, no.1, pp.28-45, 2023 (SCI-Expanded)
- VII. **Effect of radiation on the mechanical, energy dissipation and vibration-damping properties of platinum-cured vinyl-methyl-polysiloxane elastomer**
ÇINAR ESİN Z., ŞEN M.
Radiation Physics and Chemistry, vol.202, 2023 (SCI-Expanded)
- VIII. **Preparation and characterization of natural rubber-based new elastomers for high-damping base isolation systems**
Azar F. A. N., Naghshineh A. K., ŞEN M.
JOURNAL OF ELASTOMERS AND PLASTICS, vol.54, no.6, pp.959-974, 2022 (SCI-Expanded)
- IX. **Dynamical Mechanical Properties of Radiation Modified Phenyl-Vinyl-Methyl-Polysiloxane Elastomers at The Natural Frequency by Dynamic Mechanical Yerzley Oscillograph**
Şen M., Aksüt D.
KAUTSCHUK GUMMI KUNSTSTOFFE, vol.4, pp.55-61, 2022 (SCI-Expanded)
- X. **Dynamic mechanical Properties of radiation-modified Peroxide cured PVMQ elastomers at their natural frequency**
Şen M., Aksut D., Saltuk I., Akgerman N.
KGK-KAUTSCHUK GUMMI KUNSTSTOFFE, vol.75, no.4, pp.55-61, 2022 (SCI-Expanded)
- XI. **A different approach to immunochemotherapy for colon Cancer: Development of nanoplexes of cyclodextrins and Interleukin-2 loaded with 5-FU**
Akkin S., VARAN G., AKSÜT D., Malanga M., ERCAN A., ŞEN M., BİLEN SOY E.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.623, 2022 (SCI-Expanded)
- XII. **Lignin in Place of Carbon Black for Ethylene-Propylene-Diene-Monomer Based Automotive Sealing Profiles**
Poyraz B., Güner Y., Tozluoğlu A., Yamanoğlu R., CANDAN Z., ŞEN M.
BioResources, vol.17, no.4, pp.5905-5918, 2022 (SCI-Expanded)
- XIII. **Radiation synthesis and characterization of xanthan gum hydrogels**
Hayrabolulu H., Demeter M., Cutrubinis M., ŞEN M.
RADIATION PHYSICS AND CHEMISTRY, vol.188, 2021 (SCI-Expanded)
- XIV. **Regulation of chondrocyte hypertrophy in an osteochondral interface mimicking gel matrix**
Korpayev S., Toprak O., Kaygusuz G., ŞEN M., Orhan K., Karakecili A.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.193, 2020 (SCI-Expanded)
- XV. **Chitosan/collagen based biomimetic osteochondral tissue constructs: A growth factor-free approach**
Korpayev S., Kaygusuz G., Şen M., Orhan K., Oto Ç., Karakeçili A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.156, pp.681-690, 2020 (SCI-Expanded)
- XVI. **The effect of ionizing radiation on the mechanical properties of NBR elastomers reinforced by lignin**
Şen M., Aksüt D., Karaağaç B.
RADIATION PHYSICS AND CHEMISTRY, vol.168, 2020 (SCI-Expanded)
- XVII. **Synthesis and characterization of radiation cross-linked PVP hydrogels and investigation of its potential as an antileishmanial drug carrier**
Ben Ammar N. E., Essid R., Saied T., Şen M., Elkahoui S., Hamzaoui A. H.
POLYMER BULLETIN, vol.77, pp.1343-1357, 2020 (SCI-Expanded)
- XVIII. **The effect of ionizing radiation on the temperature scanning stress relaxation properties of nitrile-butadiene rubber elastomers reinforced by lignin**
Şen M., Aksüt D., Karaağaç B.
RADIATION PHYSICS AND CHEMISTRY, vol.168, 2020 (SCI-Expanded)
- XIX. **Reducing the hydrocarbon gas diffusion and increasing the pressure-impact strength of fuel transfer pipelines for use in the automotive industry using radiation crosslinked polyamide 12**
Hıdıroğlu M., Aksüt D., Serce O., Karabulut H., Şen M.
RADIATION PHYSICS AND CHEMISTRY, vol.159, pp.118-123, 2019 (SCI-Expanded)

- XX. **Effect of radiation on vinyl-methyl-polysiloxane and phenyl-vinyl-methyl-polysiloxane elastomers cured with different co-agents: Comparative study of mechanical and relaxation properties**
Aksüt D., Demeter M., Vancea C., Şen M.
RADIATION PHYSICS AND CHEMISTRY, vol.158, pp.87-93, 2019 (SCI-Expanded)
- XXI. **Strengthen adhesion between zirconia and resin cement using different surface modifications**
Akay C., Tanis M. C., Şen M., Kavaklı P.
International Journal of Applied Ceramic Technology, vol.16, no.3, pp.917-922, 2019 (SCI-Expanded)
- XXII. **Effect of radiation on mechanical properties of phenyl-vinyl-methyl-polysiloxane (PVMQ) elastomers cured with peroxide and Type I and Type II coagents**
Aksüt D., Demeter M., Calina I., Şen M.
RADIATION PHYSICS AND CHEMISTRY, vol.158, pp.148-152, 2019 (SCI-Expanded)
- XXIII. **Effect of selective infiltration etching on the bond strength between zirconia and resin luting agents**
TANIS M. C., Akay C., Şen M.
JOURNAL OF ESTHETIC AND RESTORATIVE DENTISTRY, vol.31, pp.257-262, 2019 (SCI-Expanded)
- XXIV. **Mechanical characterization and ex vivo evaluation of anticancer and antiviral drug printed bioadhesive film for the treatment of cervical cancer**
Varan C., Şen M., Sandler N., Aktaş Y., Bilensoy E.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.130, pp.114-123, 2019 (SCI-Expanded)
- XXV. **Partially sulfonated styrene-(ethylene-butylene)-styrene copolymers: Nanostructures, bio and electro-active properties**
Orujalipoor I., Polat K., Huang Y., İde S., Şen M., Jeng U., Ağçeli G., Cihangir N.
Materials Chemistry and Physics, vol.225, pp.399-405, 2019 (SCI-Expanded)
- XXVI. **E-Beam Processing of Collagen-Poly(N-vinyl-2-pyrrolidone) Double-Network Superabsorbent Hydrogels: Structural and Rheological Investigations**
DEMENTER M., CALINA I., VANCEA C., ŞEN M., KAYA M. G. A., MANAILA E., DUMITRU M., MELTZER V.
MACROMOLECULAR RESEARCH, vol.27, no.3, pp.255-267, 2019 (SCI-Expanded)
- XXVII. **Identification of temperature scanning stress relaxation behaviors of new grade ethylene propylene diene elastomers**
Karaagac B., CENGİZ S. C., Bayram T., ŞEN M.
ADVANCES IN POLYMER TECHNOLOGY, vol.37, no.8, pp.3027-3037, 2018 (SCI-Expanded)
- XXVIII. **A comparative study between three different methods of hydrogel network characterization: effect of composition on the crosslinking properties using sol-gel, rheological and mechanical analyses**
BEN AMMAR N. E., SAIED T., BARBOUCHE M., HOSNI F., HAMZAoui A. H., ŞEN M.
POLYMER BULLETIN, vol.75, no.9, pp.3825-3841, 2018 (SCI-Expanded)
- XXIX. **Comparison of the Mechanical Properties of Platelet-Rich Fibrin and Ankaferd Blood Stopper-loaded Platelet-rich Fibrin**
Aktaş A., Özer T., Şen M., Türk M., Karabulut E.
NIGERIAN JOURNAL OF CLINICAL PRACTICE, vol.21, pp.1087-1092, 2018 (SCI-Expanded)
- XXX. **In vitro shear bond strength between fluorinated zirconia ceramic and resin cements**
TANIS M. C., Akay C., Akcaboy T. C., ŞEN M., KAVAKLI P., Sapmaz K.
Journal of Advanced Prosthodontics, vol.10, no.3, pp.205-210, 2018 (SCI-Expanded)
- XXXI. **Radiation induced degradation of xanthan gum in aqueous solution**
Hayrabolulu H., DEMETER M., CUTRUBINIS M., Guven O., ŞEN M.
RADIATION PHYSICS AND CHEMISTRY, vol.144, pp.189-193, 2018 (SCI-Expanded)
- XXXII. **Influence of nano alumina coating on the flexural bond strength between zirconia and resin cement**
Akay C., TANIS M. C., Mumcu E., Kilicarslan M. A., ŞEN M.
JOURNAL OF ADVANCED PROSTHODONTICS, vol.10, no.1, pp.43-49, 2018 (SCI-Expanded)
- XXXIII. **The Effect of Ascorbic Acid (Vitamin C) on Transepithelial Corneal Cross-Linking in Rabbits**
KOC M., BOSTANCI B., DEMIREL O. O., GENC F., TEKIN K., Koban Y., Dincel A. S., ŞEN M., YILMAZBAS P.
JOURNAL OF OCULAR PHARMACOLOGY AND THERAPEUTICS, vol.33, no.7, pp.525-529, 2017 (SCI-Expanded)
- XXXIV. **Effects of accelerator type on stress relaxation behavior and network structure of aged natural**

- rubber/chloroprene rubber vulcanizates**
AZAR F. A. N., ŞEN M.
JOURNAL OF ELASTOMERS AND PLASTICS, vol.49, no.5, pp.381-396, 2017 (SCI-Expanded)
- XXXV. Effects of Hot Chemical Etching and 10-Metacryloxydecyl Dihydrogen Phosphate (MDP) Monomer on the Bond Strength of Zirconia Ceramics to Resin-Based Cements**
Akay C., TANIS M. C., ŞEN M.
JOURNAL OF PROSTHODONTICS-IMPLANT ESTHETIC AND RECONSTRUCTIVE DENTISTRY, vol.26, no.5, pp.419-423, 2017 (SCI-Expanded)
- XXXVI. Preparation and characterization of a thermoplastic proton-exchange system based on SEBS and polypropylene blends**
Polat K., ŞEN M.
EXPRESS POLYMER LETTERS, vol.11, no.3, pp.209-218, 2017 (SCI-Expanded)
- XXXVII. A polymeric nanocomposite system for potential adhesive applications in restorative dentistry**
Çopuroğlu M., ŞEN M., KEYF F.
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.31, no.6, pp.602-612, 2017 (SCI-Expanded)
- XXXVIII. Design and optimization of novel paclitaxel-loaded folate-conjugated amphiphilic cyclodextrin nanoparticles**
ERDOĞAR N., ESENDAĞLI G., Nielsen T. T., ŞEN M., ÖNER L., BİLEN SOY E.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.509, pp.375-390, 2016 (SCI-Expanded)
- XXXIX. Radiation induced degradation of xanthan gum in the solid state**
ŞEN M., Hayrabolulu H., Taskin P., DEMETER M., CUTRUBINIS M., Guven O.
RADIATION PHYSICS AND CHEMISTRY, vol.124, pp.225-229, 2016 (SCI-Expanded)
- XL. Synthesis and Characterization of a Zr-Containing Silicate-Based Epoxy-Functional Polymer Nanocomposite System**
Çopuroğlu M., Şen M.
POLYMER ENGINEERING AND SCIENCE, vol.55, pp.792-798, 2015 (SCI-Expanded)
- XLI. Nano and microstructures of SEBS/PP/wax blend membranes: SAXS and WAXS analyses**
Polat K., Orujalipoor I., İde S., Şen M.
JOURNAL OF POLYMER ENGINEERING, vol.35, pp.151-157, 2015 (SCI-Expanded)
- XLII. The effect of environmental humidity on radiation-induced degradation of carrageenans**
Şen M., Toprak D., Guven O.
CARBOHYDRATE POLYMERS, vol.114, pp.546-552, 2014 (SCI-Expanded)
- XLIII. Curing kinetics of styrene-(ethylene-butylene)-styrene (SEBS) copolymer by peroxides in the presence of co-agents**
POLAT K., ŞEN M.
JOURNAL OF POLYMER ENGINEERING, vol.34, no.9, pp.787-792, 2014 (SCI-Expanded)
- XLIV. Light-Curing of a Sol-Gel-Derived Silicate-Based Epoxy-Functional Polymer Nanocomposite Material System**
Copuroglu M., Şen M.
POLYMER COMPOSITES, vol.35, pp.1879-1887, 2014 (SCI-Expanded)
- XLV. Synthesis of carboxylated locust bean gum hydrogels by ionizing radiation**
Hayrabolulu H., Şen M., Celik G., Kavaklı P.
Radiation Physics and Chemistry, vol.94, no.1, pp.240-244, 2014 (SCI-Expanded)
- XLVI. The effect of degree of deacetylation on the radiation induced degradation of chitosan**
Taskin P., Canisag H., Şen M.
RADIATION PHYSICS AND CHEMISTRY, vol.94, pp.236-239, 2014 (SCI-Expanded)
- XLVII. Identification of relationship between the synthesis/process parameters and properties of a sol-gel-derived polymer nanocomposite system**
Copuroglu M., Şen M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.129, pp.3704-3709, 2013 (SCI-Expanded)
- XLVIII. A comprehensive study on the size exclusion chromatography of kappa-carrageenan for the**

identification of after-peaks

Şen M., Yolacan B., Guven O.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.127, pp.494-499, 2013 (SCI-Expanded)

- XLIX. **Radiation synthesis and characterisation of the network structure of natural/synthetic double-network superabsorbent polymers**

Şen M., Hayrabolulu H.

RADIATION PHYSICS AND CHEMISTRY, vol.81, pp.1378-1382, 2012 (SCI-Expanded)

- L. **Ultraviolet-radiation-curing of an organically modified silicate-based material system with epoxy functionality, and the role of titanium**

Copuroglu M., Şen M.

RADIATION PHYSICS AND CHEMISTRY, vol.81, pp.1324-1327, 2012 (SCI-Expanded)

- LI. **The antioxidant properties of oligo sodium alginates prepared by radiation-induced degradation in aqueous and hydrogen peroxide solutions**

Şen M., Atik H.

RADIATION PHYSICS AND CHEMISTRY, vol.81, pp.816-822, 2012 (SCI-Expanded)

- LII. **Swelling and mechanical properties of superabsorbent hydrogels based on Tara gum/acrylic acid synthesized by gamma radiation**

Abd Alla S. G., Şen M., El-Naggar A. W. M.

CARBOHYDRATE POLYMERS, vol.89, pp.478-485, 2012 (SCI-Expanded)

- LIII. **EFFECTS OF CRYOGENIC TREATMENT ON THE PROPERTIES OF TYRE PRODUCTION WASTES**

KARAАГAÇ B., Deniz V., ŞEN M.

CHEMICKE LISTY, vol.105, no.5, pp.429-434, 2011 (SCI-Expanded)

- LIV. **Effects of molecular weight and ratio of guluronic acid to mannuronic acid on the antioxidant properties of sodium alginate fractions prepared by radiation-induced degradation**

Sen M.

APPLIED RADIATION AND ISOTOPES, vol.69, pp.126-129, 2011 (SCI-Expanded)

- LV. **Determination of critical gelation conditions of kappa-carrageenan by viscosimetric and FT-IR analyses**

Şen M., Erboz E. N.

FOOD RESEARCH INTERNATIONAL, vol.43, pp.1361-1364, 2010 (SCI-Expanded)

- LVI. **Effect of G/M ratio on the radiation-induced degradation of sodium alginate**

Şen M., Rendevski S., Kavakli P., Sepehrianazar A.

Radiation Physics and Chemistry, vol.79, no.3, pp.279-282, 2010 (SCI-Expanded)

- LVII. **Effects of gamma and electron beam irradiation on the properties of calendered cord fabrics**

Aytaç A., Deniz V., Şen M., Hegazy E., Guven O.

RADIATION PHYSICS AND CHEMISTRY, vol.79, pp.297-300, 2010 (SCI-Expanded)

- LVIII. **Intravesical cationic nanoparticles of chitosan and polycaprolactone for the delivery of Mitomycin C to bladder tumors**

Bilensoy E., Sarisozen C., Esenagli G., Doğan A., Aktas Y., Şen M., Mungan N. A.

INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.371, pp.170-176, 2009 (SCI-Expanded)

- LIX. **Adsorption of Apollo reactive dyes on poly(N,N dimethylamino ethylmethacrylate) hydrogels**

Solpan D., Şen M., Kolge Z., Guven G.

RADIATION PHYSICS AND CHEMISTRY, vol.77, pp.428-433, 2008 (SCI-Expanded)

- LX. **Effect of gamma irradiation on the properties of tyre cords**

Aytaç A., Şen M., Deniz V., Guven O.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.265, pp.271-275, 2007 (SCI-Expanded)

- LXI. **Radiation-induced degradation of galactomannan polysaccharides**

Şen M., Yolacan B., Guven G.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.265, pp.429-433, 2007 (SCI-Expanded)

- LXII. **Recycling of gamma irradiated inner tubes in butyl based rubber compounds**
Karaagac B., Şen M., Deniz V., Guven O.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.265, pp.290-293, 2007 (SCI-Expanded)
- LXIII. **Radiation synthesis of low swelling acrylamide based hydrogels and determination of average molecular weight between cross-links**
Mahmudi N., Şen M., Rendevski S., Gueven G.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.265, pp.375-378, 2007 (SCI-Expanded)
- LXIV. **Controlling of pore size and distribution of PDMAEMA hydrogels prepared by gamma rays**
Sen M., Agus O., Safrany A.
RADIATION PHYSICS AND CHEMISTRY, vol.76, pp.1342-1346, 2007 (SCI-Expanded)
- LXV. **Thermosensitive mucoadhesive gel formulation loaded with 5-Fu: cyclodextrin complex for HPV-induced cervical cancer**
Bilensoy E., Cirpanli Y., Sen M., Dogan A. L., Calis S.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.57, pp.363-370, 2007 (SCI-Expanded)
- LXVI. **Complexation behavior of antiestrogen drug tamoxifen citrate with natural and modified beta-cyclodextrins**
Bilensoy E., Dogan L., Sen M., Hincal A.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.57, pp.651-655, 2007 (SCI-Expanded)
- LXVII. **Water sorption and solubility of different luting and restorative dental cements**
Keyf F., Tuna S. H., Şen M., Safrany A.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.37, pp.47-55, 2007 (SCI-Expanded)
- LXVIII. **Investigation of heavy metal ion adsorption characteristics of poly(N,N dimethylamino ethylmethacrylate) hydrogels**
Kavaklı P. A., Yilmaz Z., Sen M.
SEPARATION SCIENCE AND TECHNOLOGY, vol.42, pp.1245-1254, 2007 (SCI-Expanded)
- LXIX. **Removal of nitrite ions from aqueous solutions by poly(N,N-dimethylamino ethylmethacrylate) hydrogels**
Yilmaz Z., Akkas P. K., Sen M., Guven O.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.6, pp.6023-6027, 2006 (SCI-Expanded)
- LXX. **Influence of gamma irradiation on the ageing characteristics of poly(ethylene-co-vinyl acetate) and poly(ethylene-co-vinyl acetate)/carbon black mixture**
Sen M., Copuroglu M.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.86, pp.223-227, 2006 (SCI-Expanded)
- LXXI. **Mucoadhesive, thermosensitive, prolonged-release vaginal gel for clotrimazole: β -cyclodextrin complex**
Bilensoy E., Rouf M. A., Vural İ., Sen M., Hincal A. A.
AAPS PharmSciTech, vol.7, no.2, 2006 (SCI-Expanded)
- LXXII. **Effect of drug physicochemical properties on in vitro characteristics of amphiphilic cyclodextrin nanospheres and nanocapsules**
Memisoglu-Bilensoy E., Sen M., Hincal A. A.
Journal of Microencapsulation, vol.23, no.1, pp.59-68, 2006 (SCI-Expanded)
- LXXIII. **A comparative study of gamma irradiation of poly (ethylene-co-vinyl acetate) and poly(ethylene-co-vinyl acetate)/carbon black mixture**
Sen M., Copuroglu M.
MATERIALS CHEMISTRY AND PHYSICS, vol.93, pp.154-158, 2005 (SCI-Expanded)
- LXXIV. **Radiation synthesis of poly(N-vinyl-2-pyrrolidone)-kappa-carrageenan hydrogels and their use in wound dressing applications. I. Preliminary laboratory tests**
Sen M., Avci E. N.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, pp.187-196, 2005 (SCI-Expanded)

- LXXV. **Radiation synthesis and characterization of poly(N,N-dimethylaminoethyl methacrylate-co-N-vinyl 2-pyrrolidone) hydrogels**
Sen M., Sari M.
EUROPEAN POLYMER JOURNAL, vol.41, pp.1304-1314, 2005 (SCI-Expanded)
- LXXVI. **Enhancement of copolymerization of itaconic acid with N-vinyl 2-pyrrolidone by radiation in the presence of cross-linking agent**
Sen M., Yakar A.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.234, pp.226-234, 2005 (SCI-Expanded)
- LXXVII. **A comparative study of UV aging characteristics of poly(ethylene-co-vinyl acetate) and poly(ethylene-co-vinyl acetate)/carbon black mixture**
Copuroglu M., SEN M.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.16, no.1, pp.61-66, 2005 (SCI-Expanded)
- LXXVIII. **A comparative study of thermal ageing characteristics of polyethylene-co-vinyl acetate) and polyethylene-co-vinyl acetate)/carbon black mixture**
Çopuroğlu M., Sen M.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.15, pp.393-399, 2004 (SCI-Expanded)
- LXXIX. **Effect of gamma irradiation conditions on the radiation-induced degradation of isobutylene-isoprene rubber**
Sen M., Uzun C., Kantoglu O., Erdogan S., Deniz V., Guven O.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.208, pp.480-484, 2003 (SCI-Expanded)
- LXXX. **Enhancement and control of cross-linking of dimethylaminoethyl methacrylate irradiated at low dose rate in the presence of ethylene glycol dimethacrylate**
Uzun C., Hassnisaber M., Sen M., Guven O.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.208, pp.242-246, 2003 (SCI-Expanded)
- LXXXI. **In vivo biocompatibility studies of poly(n-vinyl 2-pyrrolidone/itaconic acid) hydrogels synthesized by gamma-rays**
Ozdemir S., Ozdemir E., Tunca R., Haziroglu R., Sen M., Kantoglu O., Guven O.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.208, pp.395-399, 2003 (SCI-Expanded)
- LXXXII. **Changing of network characteristics of acrylamide/maleic acid hydrogels by alteration of irradiation dose rate**
Sen M., Uzun C., Safrany A., Kantoglu O., Guven O.
RADIATION PHYSICS AND CHEMISTRY, vol.67, pp.371-374, 2003 (SCI-Expanded)
- LXXXIII. **Non-surfactant nanospheres of progesterone inclusion complexes with amphiphilic beta-cyclodextrins**
Memisoglu E., Bochot A., Sen M., Duchene D., Hincal A.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.251, pp.143-153, 2003 (SCI-Expanded)
- LXXXIV. **Direct formation of nanospheres from amphiphilic beta-cyclodextrin inclusion complexes**
Memisoglu E., Bochot A., Ozalp M., SEN M., Duchene D., Hincal A.
PHARMACEUTICAL RESEARCH, vol.20, no.1, pp.117-125, 2003 (SCI-Expanded)
- LXXXV. **Amphiphilic beta-cyclodextrins modified on the primary face: Synthesis, characterization, and evaluation of their potential as novel excipients in the preparation of nanocapsules**
Memisoglu E., Bochot A., Sen M., Charon D., Duchene D., Hincal A.
JOURNAL OF PHARMACEUTICAL SCIENCES, vol.91, no.5, pp.1214-1224, 2002 (SCI-Expanded)
- LXXXVI. **Dynamic deswelling studies of poly(N-vinyl-2-pyrrolidone/itaconic acid) hydrogels swollen in water and terbinafine hydrochloride solutions**
Sen M., Guven O.
EUROPEAN POLYMER JOURNAL, vol.38, pp.751-757, 2002 (SCI-Expanded)

- LXXXVII. **Controlled release of antifungal drug terbinafine hydrochloride from poly(N-vinyl 2-pyrrolidone/itaconic acid) hydrogels**
Sen M., Yakar A.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.228, pp.33-41, 2001 (SCI-Expanded)
- LXXXVIII. **The preparation of ultra narrow molecular weight distribution poly(ethylene glycol)s by fractional crystallization from solution**
Sen M., Guven O.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.79, pp.1999-2005, 2001 (SCI-Expanded)
- LXXXIX. **Prediction of the swelling behaviour of amphiphilic hydrogels and the determination of average molecular weight between cross-links**
Sen M., Guven O.
COMPUTATIONAL AND THEORETICAL POLYMER SCIENCE, vol.11, pp.475-482, 2001 (SCI-Expanded)
- XC. **Controlled release of terbinafine hydrochloride from pH sensitive poly(acrylamide/maleic acid) hydrogels**
Sen M., Uzun C., Guven O.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.203, pp.149-157, 2000 (SCI-Expanded)
- XCI. **The effect of gel composition on the adsorption of invertase on poly(acrylamide/maleic acid) hydrogels**
Arslan F., Tumturk H., Caykara T., Sen M., Guven O.
FOOD CHEMISTRY, vol.70, no.1, pp.33-38, 2000 (SCI-Expanded)
- XCII. **A review on the radiation synthesis of copolymeric hydrogels for adsorption and separation purposes**
Guven O., Sen M., Karadag E., Saraydin D.
RADIATION PHYSICS AND CHEMISTRY, vol.56, pp.381-386, 1999 (SCI-Expanded)
- XCIII. **The effect of external stimuli on the Bovine Serum Albumin adsorption capacity of poly(acrylamide/maleic acid) hydrogels prepared by gamma rays**
Akkas P., Sari M., Sen M., Guven O.
RADIATION PHYSICS AND CHEMISTRY, vol.55, pp.717-721, 1999 (SCI-Expanded)
- XCIV. **Adsorption of alpha-amylase onto poly(acrylamide/maleic acid) hydrogels**
Tumturk H., Caykara T., Sen M., Guven O.
RADIATION PHYSICS AND CHEMISTRY, vol.55, pp.713-716, 1999 (SCI-Expanded)
- XCV. **Radiation synthesis of poly(N-vinyl 2-pyrrolidone/itaconic acid) hydrogels and their controlled release behaviours**
Sen M., Guven O.
RADIATION PHYSICS AND CHEMISTRY, vol.55, pp.113-120, 1999 (SCI-Expanded)
- XCVI. **The effect of external stimuli on the uranyl ions uptake capacity of poly(N-vinyl 2-pyrrolidone/itaconic acid) hydrogels prepared by gamma rays**
Kantoglu O., Sen M., Guven O.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.151, pp.218-221, 1999 (SCI-Expanded)
- XCVII. **Determination of average molecular weight between cross-links ((M)over-bar(c)) from swelling behaviours of diprotic acid-containing hydrogels**
Sen M., Yakar A., Guven O.
POLYMER, vol.40, pp.2969-2974, 1999 (SCI-Expanded)
- XCVIII. **The effect of external stimuli on the equilibrium swelling properties of poly(N-vinyl 2-pyrrolidone itaconic acid) poly-electrolyte hydrogels**
Sen M., Kantoglu O., Guven O.
POLYMER, vol.40, pp.913-917, 1999 (SCI-Expanded)
- XCIX. **Radiation synthesis and characterization of N-vinyl-2-pyrrolidone/N-allylthiourea hydrogels and their use in the adsorption of invertase**
Sen M., Pekel N., Guven O.

- ANGEWANDTE MAKROMOLEKULARE CHEMIE, vol.257, pp.1-6, 1998 (SCI-Expanded)
- C. The effect of UV light on the thermooxidative stability of linear low density polyethylene films crosslinked by ionizing radiation
Sen M., Basfar A.
RADIATION PHYSICS AND CHEMISTRY, vol.52, pp.247-250, 1998 (SCI-Expanded)
- CI. Prediction of swelling behaviour of hydrogels containing diprotic acid moieties
Sen M., Guven O.
POLYMER, vol.39, pp.1165-1172, 1998 (SCI-Expanded)
- CII. Determination of solubility parameter of Poly(n-vinyl 2-pyrrolidon/ethylene glycol dimethacrylate) gels by swelling measurements
Sen M., Guven O.
JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.36, pp.213-219, 1998 (SCI-Expanded)
- CIII. A COMPARATIVE-STUDY OF THERMAL AND MECHANICAL STABILITIES OF GAMMA-IRRADIATED ETHYLENE-ETHYL ACRYLATE AND ETHYLENE-VINYL ACETATE COPOLYMERS
Sen M., Guven O.
RADIATION PHYSICS AND CHEMISTRY, vol.46, pp.871-874, 1995 (SCI-Expanded)
- CIV. THE DEPENDENCE OF ENZYME LEAKAGE ON CROSS-LINK DENSITY IN POLY(N-VINYL-2-PYRROLIDONE) HYDROGELS WITH IMMOBILIZED UREASE
Güven O., SEN M.
ANGEWANDTE MAKROMOLEKULARE CHEMIE, vol.207, pp.101-109, 1993 (SCI-Expanded)
- CV. PREPARATION AND CHARACTERIZATION OF POLY(N-VINYL 2-PYRROLIDONE) HYDROGELS
GUVEN O., SEN M.
POLYMER, vol.32, no.13, pp.2491-2495, 1991 (SCI-Expanded)

Articles Published in Other Journals

- I. Adsorption of Some Dyes on Cationic Poly N N Dimethyl Amino Ethyl methacrylate Hydrogels
ŞOLPAN ÖZBAY D., ŞEN M., Kölge Z., TORUN M., Güven O.
Hacettepe Journal of Biology and Chemistry, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Mechanical Characterization and ex vivo Evaluation of Inkjet Printed Bioadhesive Film Formulation of Complexed Paclitaxel and Nanoparticulate Cidofovir
VARAN C., ŞEN M., SANDLER N., AKTAŞ Y., BİLENZOY E.
EUFEPS Annual Meeting 2018, Atina, Greece, 24 - 26 May 2018
- II. Enhanced bonding to zirconia surface using different surface modifications/Farklı yüzey modifikasyonları kullanılarak zirkonyum bağlantısının güçlendirilmesi
AKAY C., ÇAKIRBAY TANIŞ M., ŞEN M., AKKAŞ KAVAKLI P.
23. Uluslararası Türk Prostodonti ve İmplantoloji Derneği Bilimsel Kongresi, Turkey, 9 - 12 November 2017
- III. Enhanced bonding to zirconia surface using different surface modifications
AKAY C., ÇAKIRBAY TANIŞ M., ŞEN M., AKKAŞ KAVAKLI P.
23. Uluslararası Türk Prostodonti ve İmplantoloji Derneği Bilimsel Kongresi, 9 - 12 November 2017
- IV. Printing and characterization of antiviral and anticancer drug loaded film formulation by using inkjet printer
VARAN C., ŞEN M., SANDLER N., AKTAŞ Y., BİLENZOY E.
7th BBBB International Conference on Pharmaceutical Sciences, 5 - 07 October 2017
- V. Shear bond strength between fluorinated zirconia and resin cements
ÇAKIRBAY TANIŞ M., AKAY C., ŞEN M., AKKAŞ KAVAKLI P.

- 41st Annual Conference of European Prosthodontic Association, 28 - 30 September 2017
- VI. Preparation and Characterization of Antiviral and Anticancer Drug Printed Film Formulations for the treatment of Cervical Cancer
VARAN C., ŞEN M., SANDLER N., BİLENZOY E.
SANKO University Innovation in Medicine Summit, 11 - 13 May 2017
- VII. RADIATION INDUCED DEGRADATION OF XHANTAN GUM IN SOLID STATE AND AQUEOUS SOLUTIONS
ŞEN M., Hayrabolulu H., Taşkın P., TORUN M., Demeter M., Cutrubbini M., Güven O.
13th Tihany Symposium on Radiation Chemistry, 29 August - 03 September 2015
- VIII. Düşük Yoğunluklu Polietilen ve Etilen Vinil Asetat Kopolimeri Kullanılarak Isı ile Büzülebilen Tüplerin Hazırlanması
KIRAÇ F., ŞEN M.
3. Ulusal Polimer Bilim ve Teknoloji Kongresi, Kocaeli, Turkey, 12 - 14 May 2010
- IX. Characterization of network structure of polyacrylamide based hydrogels prepared by radiation induced polymerization
Mahmudi N., ŞEN M., GUEVEN O., Rendevski S.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.790

Supported Projects

- ŞEN M., YALAKİ Y., AKSÜT D., ÇINAR ESİN Z., Project Supported by Higher Education Institutions, Poli(Epiklorohidrin-Ko-Etilen Oksit-Ko-Allil Glisidil Eter) (GECO) Temelli Elastomerlerin Mekanik ve Dinamik Mekanik Özelliklerine Yapısal Parametrelerin Etkisi, 2023 - Continues
- ŞEN M., Kobi, Kauçukta iletkenlik özelliklerinin arttırılmasının araştırılması, 2011 - Continues
- ŞEN M., AKSÜT D., ÇINAR Z., Soydaş O., Project Supported by Higher Education Institutions, Yüksek Sönükleme Özelliğine Sahip Epiklorhidrin Esaslı Elastomerlerin Hazırlanması ve Karakterizasyonu, 2021 - 2023
- ŞEN M., ÇINAR Z., AKSÜT D., Project Supported by Higher Education Institutions, İyonlaştırıcı Radyasyonun Platinle Kürleştirilmiş Silikon Elastomerlerin Kimyasal ve Fiziksel Özelliklerine Etkisi, 2020 - 2023
- ŞEN M., AKSÜT D., Arslan E. A., Project Supported by Higher Education Institutions, Izod Darbe Testi Cihazının Tasarımı ve Plastik Testlerinde Kullanılması, 2020 - 2022
- ŞEN M., Ahi S., AKSÜT D., Project Supported by Higher Education Institutions, Doğal Kauçuk Esaslı Atık Lateks Eldiven ve Etilen Vinil Asetat Kullanılarak Yeni Termoplastik Elastomer Kompozitlerin Hazırlanması ve Karakterizasyonu, 2019 - 2022
- ŞEN M., Durmuş Y., Aksüt D., Project Supported by Higher Education Institutions, Yeni Nesil Etilen Propilen Dien Momomer EPDM Elastomerlerinin Fiziksel FizikoMekanik ve Dinamik Özelliklerine Etki Eden Parametrelerin Belirlenmesi ve YapıÖzellik İlişkisinin Aydınlatılması, 2018 - 2022
- ALTUNTAŞ ÖZTAŞ N., DENİZLİ A., AY A. N., GÖKOĞLU E., TOKAY N., DÜZ B., SALİH B., ÜNALEROĞLU C., ŞEN M., Project Supported by Higher Education Institutions, HACETTEPE ÜNİVERSİTESİ FEN FAKÜLTESİ KİMYA BÖLÜMÜ ÖĞRENCİ LABORATUVARLARININ VE EĞİTİMİNİN İYİLEŞTİRİLMESİ, 2017 - 2022
- ŞEN M., TUBITAK Project, 1505-Hafif Raylı Metro Hatları Esnek Tekerleri İçin Flanş Lastiğinin Geliştirilmesi, 2019 - 2021
- ŞEN M., Aksüt D., Onay M. M., Project Supported by Higher Education Institutions, Yüksek Gerilim Hatlarında Kullanılan Silikon Elastomerlerin Ömür Süresinin Tayini ve İzolatörlerin Geliştirilmesi, 2019 - 2020
- ŞEN M., GÜVENİR E. Ü., Project Supported by Higher Education Institutions, DemattiaEsnek Çatlama Test Cihazının Tasarımı ve Elastomerler Testlerinde Kullanılması, 2019 - 2020
- ŞEN M., Aksüt D., Project Supported by Higher Education Institutions, Silikon Elastomerlerin Radyasyon Kararlılığı Kontrol Eden Faktörlerin Belirlenmesi, 2018 - 2020
- ŞEN M., Babapour A., Nobari AZAR F. A., Kaymazlar E., Durmuş Y., Aksüt D., Project Supported by Higher Education Institutions, Elektroaktif Elastomer Hareketlendiriciler Kullanılarak Bioesinli Yapay Göz Topları İçin Kontrol Sistemlerinin Geliştirilmesi, 2017 - 2020
- ŞEN M., TUBITAK Project, Lignin'in Nitril Kauçuğu Vulkanizasyonu Üzerindeki Sinerjik Etkisi ve Yaşılanma Dayanımına Olan Katkı, 2018 - 2019

ŞEN M., Aksüt D., Onay M., Project Supported by Higher Education Institutions, Akrilonitril Bütadien Kauçugunun (NBR) Liginin Varlığında Hızlandırılmış Vulkanizasyonu ve Liginin'ın NBR elastomerinin Yaşılanma ve Reolojik Özellikleri Üzerindeki Etkisi, 2018 - 2019

ŞEN M., Kobi, Titreşim Sönümlerini Elastomerik Malzemelerin Geliştirilmesi, 2017 - 2018

ŞEN M., TUBITAK Project, Hızlandırıcı Tipinin ve Hızlandırıcı/Kükürt Oranının Doğal Kauçuk/Kloropren Kauçuk Esası Elastomerlerin Vulkanizasyon Derecesi ve Yaşılanma Özellikleri Üzerindeki Etkisi, 2016 - 2018

ŞEN M., Project Supported by Higher Education Institutions, EPDM Elastomerlerin Sıcaklık Taramalı Gerilme Durulma Davranışının İncelenmesi, 2017 - 2017

ŞEN M., Project Supported by Higher Education Institutions, Silikon Elastomerlerin Radyasyon Kararlılığına Etki Eden Parametrelerin Belirlenmesi, 2017 - 2017

ŞEN M., TUBITAK Project, Silikon Elastomerlerin Durulma Özelliklerini Kontrol Eden Parametrelerin Belirlenmesi, 2016 - 2017

ŞEN M., Project Supported by Higher Education Institutions, Elastomer Esası Dielektrik Hareketlendiricilerin Hazırlanması ve Karakterizasyonu, 2016 - 2016

ŞEN M., Project Supported by Higher Education Institutions, Peroksitlerin Kimyasal Yapısının Silikon Elastomerlerin Mekanik ve Dinamik Özelliklerine Olan Etkisi, 2016 - 2016

ŞEN M., Project Supported by Higher Education Institutions, Ko-Ajanların Kimyasal Yapısının Silikon Elastomerlerin Zincir Esnekliğine Etkisi ve Bunun Elastomerlerin Mekanik Durulma Davranışlarına Olan Katkısı, 2016 - 2016

ŞEN M., TUBITAK Project, Çapraz bağlayıcı konsantrasyonunun SAP'ların ağ yapısı üzerindeki etkilerinin reolojik özelliklerine incelenmesi, 2015 - 2016

ŞEN M., Project Supported by Higher Education Institutions, Stiren-Etilen -Bütiden-Stiren (SEBS) kopolimerinin yardımcı ajanlar varlığında kür kinetiğinin incelenmesi, 2015 - 2016

ŞEN M., TUBITAK Project, Termoplastik Esaslı Ayak Protez Sistemlerinde Kullanılacak Gömlek Üretimi, 2015 - 2016

ŞEN M., Parlak M., Ahmadzadeh Nobari Azar F., Project Supported by Higher Education Institutions, Silikon Elastomerlerin Durulma Özelliklerine Pişirici Tipinin ve Oranının Etkisi, 2015 - 2016

ŞEN M., Project Supported by Higher Education Institutions, Doğal Kauçuk/Kloropren Kauçuk Esası Karışımının Vulkanizasyon Kinetiğine ve Yaşılanma Özelliklerine Hızlandırıcının Tipinin ve Hızlandırıcı/Kükürt Oranının Etkisinin Belirlenmesi, 2014 - 2016

GENÇ F., ŞEN M., Project Supported by Higher Education Institutions, Ksantan Sakızı Polimerinin İyonlaştırıcı Radyasyonla Bozunma Hızına İşinlama Dozunun ve Doz Hızının Etkisi, 2015 - 2015

BARSBAY M., ŞATIROĞLU N., KARAN B., SALİH B., ŞEN M., Project Supported by Higher Education Institutions, 8. Fen Fakültesi Kariyer Günleri ve Bilim Şenliği Kimya Bölümü Projeleri, 2015 - 2015

ŞEN M., Project Supported by Higher Education Institutions, Ksantan sakızının katı ve çözelti halinde radyasyonla indüklenmiş bozunması, 2015 - 2015

KARASOY D., ŞEN M., Project Supported by Higher Education Institutions, 8. FEN FAKÜLTESİ KARIYER GÜNLERİ VE BİLİM ŞENLİĞİ, 2015 - 2015

ŞEN M., Project Supported by Higher Education Institutions, Sol-Jel Tekniği ile Zirkonyum ve Silikat içerkili, Epaksi Fonksiyonelli Polimerik Nanokompozitlerin Hazırlanması ve Karakterizasyonu, 2015 - 2015

ŞEN M., Project Supported by Higher Education Institutions, Hacettepe Üniversitesinde Polimer Bilimi ve Teknolojisi Eğitiminde ve Araştırmalarında Son Gelişmeler, 2014 - 2015

ŞEN M., TUBITAK Project, Epaksi-Fonksiyonelli Silikat-Icerikli Polimer Nanokompozitlerin Sentezi Ve Karakterizasyonu, 2014 - 2015

ŞEN M., Project Supported by Higher Education Institutions, EPOKSI-FONKSİYONELLİ SİLİKAT-İCERİKLİ POLİMER NANOCOMPOZİTLERİN SENTEZİ VE KARAKTERİZASYONU, 2014 - 2015

ŞEN M., TUBITAK Project, İyonlaştırıcı Radyasyonla Ksantan Sakızı Esası Süper Emici Polimerlerin Hazırlanması İçin Optimum İşleme Koşullarının Belirlenmesi, 2013 - 2015

ŞEN M., TUBITAK Project, İyonlaştırıcı Radyasyonla Ksantan Sakızı Esası Süper Emici Polimerlerin Hazırlanması İçin optimum İşleme Koşullarının Belirlenmesi, 2013 - 2015

ŞEN M., TUBITAK Project, Karboksilenmiş Keçiboynuzu Çekirdeği Sakızı Esası Süper Emici Doğal Polimerlerin Hazırlanması Ve Karakterizasyonu, 2010 - 2012

ŞEN M., TUBITAK Project, Elektrokimyasal Çöktürme Yöntemi İle İndiyum Kalay Oksit (Ito) Kaplanmış Cam Yüzeylerinin

Hazırlanması, 2010 - 2011

Memberships / Tasks in Scientific Organizations

Polimer Bilimi ve Teknolojisi Derneği, Board Member, 2017 - Continues

Scientific Consultations

Tübitak- TEYDEB Projesi, Project Consultancy, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey, 2018 - Continues

Tübitak- TEYDEB Projesi, Project Consultancy, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey, 2018 - Continues

Tübitak- 1511 Öncelikli Alanlar Araştırma Teknoloji Geliştirme Ve Yenilik Projeleri Destekleme Programı Projesi, Project Consultancy, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey, 2017 - 2018

Metrics

Publication: 116

Citation (WoS): 2461

Citation (Scopus): 2548

H-Index (WoS): 28

H-Index (Scopus): 29

Congress and Symposium Activities

7. Uluslararası Katılımlı Polimer Bilimi ve Teknolojisi Kongresi, Attendee, Eskişehir, Turkey, 2018

International Rubber Congress(IRC2018), Attendee, Kuala-Lumpur, Malaysia, 2018

Ionizing Radiation and Polymers (IRaP2018), Attendee, Moscow, Russia, 2018

RubberCon2018, Attendee, İstanbul, Turkey, 2018

Awards

ŞEN M., Paper Award, RubberCon 2019 Organization Committee, May 2019

Non Academic Experience

Hacettepe Üniversitesi

Hacettepe Üniversitesi