

Prof. SEVİM KARATAŞ

Email: skaratas@marmara.edu.tr

Web: <https://avesis.marmara.edu.tr/skaratas>

International Researcher IDs

ORCID: 0000-0002-7967-3800

Yoksis Researcher ID: 173194



Education Information

- I. Doctorate, Marmara University, Faculty of Arts and Sciences, Chemistry, Turkey 1995 - 2001
- II. Postgraduate, Istanbul University, Institute Of Graduate Studies In Sciences, Organik Kimya (YI) (Tezli), Turkey 1991 - 1993
- III. Undergraduate, Istanbul University, Mühendislik Fakültesi, Kimya Bölümü, Turkey 1986 - 1990

Dissertations

- I. Doctorate, Etil alfa-halo-3,4-disübstitüesinnamat ile alfa-açilamino-3,4-disübstitüe sinnamik asit bileşiklerinin sentezi ve Pd/C ile indirgenme ürünleri, Marmara Üniversitesi, Faculty of Arts and Sciences, Chemistry, 2001
- II. Postgraduate, Bazı keto aykosanoik asitlerin sentezi ve incelenmesi, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Organik Kimya (YI) (Tezli), 1993

Research Areas

Natural Sciences

Academic Titles / Tasks

- I. Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2016 - Continues
- II. Associate Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2011 - 2016
- III. Research Assistant, Marmara University, Faculty of Arts and Sciences, Chemistry, 1995 - 2011

Advising Theses

- I. KARATAŞ S., Kil içeren polimer nanokompozit malzemelerin hazırlanması ve karakterizasyonu, Postgraduate, M.TURNA(Student), 2018
- II. ABDURRAHMANOĞLU S., KARATAŞ S., Biyo-esashlı polimer nanokompozit malzemelerin sentezi ve kaplama uygulamaları, Postgraduate, Y.EREN(Student), 2018
- III. KARATAŞ S., UV ışınları ile sertleşebilen su bazlı poliüretan akrilatların sentezi ve karakterizasyonu, Postgraduate, T.GACAL(Student), 2016
- IV. KARATAŞ S., UV ışınları ile sertleşebilen siloksan esashlı yeni kaplama malzemelerinin hazırlanması ve karakterizasyonu, Postgraduate, M.ÇINAR(Student), 2016
- V. KARATAŞ S., UV ışınları ile sertleşebilen poliüretan yüzey kaplama malzemelerinin geliştirilmesi, Postgraduate, G.TOPÇU(Student), 2015

- VI. KARATAŞ S., UV ışınları ile sertleşebilen hidrofobik poliüretan yüzey kaplama malzemelerinin geliştirilmesi, Postgraduate, G.Topçu(Student), 2015
- VII. KARATAŞ S., UV ışınlarıyla sertleşebilen yanmaya dayanıklı poliüretan akrilat esaslı kaplama malzemelerinin sentezi ve karakterizasyonu, Postgraduate, H.BURCU(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis and characterization of ureidopyrimidinone-functionalized polyurethane acrylates and their hybrid nanocomposites for UV coating applications**
Çınar M., ÇAYLI G., KARATAŞ S.
Polymer Bulletin, vol.81, no.12, pp.11077-11105, 2024 (SCI-Expanded)
- II. **POSS-vinyl-urethane acrylate-based nanohybrid coating materials**
Eren Y., Şen F., ABDURRAHMANOĞLU S., KARATAŞ S.
Journal of Coatings Technology and Research, vol.21, no.2, pp.575-587, 2024 (SCI-Expanded)
- III. **Synthesis of polyurethane acrylate hybrids containing fluorine and siloxane by the sol-gel method for UV-curable coatings**
Çınar M., KARATAŞ S.
Polymer Bulletin, vol.80, no.11, pp.11975-12001, 2023 (SCI-Expanded)
- IV. **Effects of perfluoro modified sol-gel additive on UV-curable phosphorus containing urethane acrylate coatings**
TOPÇU G., BAŞTÜRK E., KARATAŞ S.
Journal Of Vinyl & Additive Technology, vol.24, pp.133-145, 2018 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **Thermal, mechanical and structural investigation of copolyimide-silica hybrids containing phosphine oxide**
Kizilkaya C., Bicen M., KARATAŞ S., Gungor A.
PROGRESS IN ORGANIC COATINGS, vol.86, pp.108-116, 2015 (SCI-Expanded)
- IX. **Structural effects of the monomer type on the properties of copolyimides and copolyimide-silica hybrid materials**
Kizilkaya C., Bicen M., KARATAŞ S., Gungor A.
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.80, no.8, pp.1061-1079, 2015 (SCI-Expanded)
- X. **Synthesis of Triphenyl Phosphine Oxide-Containing Polymers via Atom Transfer Radical Polymerization**
Turel B., KARATAŞ S., Gungor A., Serhath İ. E.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.128, no.1, pp.888-898, 2013 (SCI-Expanded)
- XI. **Nonisocyanate polyurethane/silica hybrid coatings via a sol-gel route**
Hosgor Z., Kayaman-Apohan N., Karatas S., Gungor A., Menciloglu Y.
ADVANCES IN POLYMER TECHNOLOGY, vol.31, no.4, pp.390-400, 2012 (SCI-Expanded)

- XII. **The effect of titania content on the physical properties of polyimide/titania nanohybrid films**
Kizilkaya C., DUMLUDAĞ F., KARATAŞ S., KAYAMAN APOHAN N., Altindal A., Gungor A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.125, no.5, pp.3802-3810, 2012 (SCI-Expanded)
- XIII. **Synthesis and characterization of UV-curable phosphorus containing hybrid materials prepared by sol-gel technique**
KARATAŞ S., KAYAMAN APOHAN N., Turunc O., Gungor A.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.22, no.5, pp.567-576, 2011 (SCI-Expanded)
- XIV. **The maleimide modified epoxy resins for the preparation of UV-curable hybrid coatings**
Altintas Z., KARATAŞ S., KAYAMAN APOHAN N., Gungor A.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.22, no.2, pp.270-278, 2011 (SCI-Expanded)
- XV. **Preparation and characterization of phosphine oxide based polyurethane/silica nanocomposite via non-isocyanate route**
Hosgor Z., Kayaman-Apohan N., KARATAŞ S., Menciloglu Y., Gungor A.
PROGRESS IN ORGANIC COATINGS, vol.69, no.4, pp.366-375, 2010 (SCI-Expanded)
- XVI. **Synthesis and Characterization of Novel Polyimide/SiO₂ Nanocomposite Materials Containing Phenylphosphine Oxide via Sol-Gel Technique**
Kizilkaya C., KARATAŞ S., Apohan N., Guengoer A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.115, no.6, pp.3256-3264, 2010 (SCI-Expanded)
- XVII. **Preparation and characterization of photopolymerizable organic-inorganic hybrid materials by the sol-gel method**
KARATAŞ S., Hosgor Z., Apohan N., Gungor A.
JOURNAL OF POLYMER RESEARCH, vol.17, no.2, pp.247-254, 2010 (SCI-Expanded)
- XVIII. **Preparation and characterization of phosphine oxide containing organosilica hybrid coatings by photopolymerization and sol-gel process**
KARATAŞ S., Hosgor Z., KAYAMAN APOHAN N., Gungor A.
PROGRESS IN ORGANIC COATINGS, vol.65, no.1, pp.49-55, 2009 (SCI-Expanded)
- XIX. **Phosphorus-containing sulfonated polyimides for proton exchange membranes**
Cakir M., Karataş S., Menciloglu Y., Kayaman Apohan N., Guengoer A.
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.209, pp.919-929, 2008 (SCI-Expanded)
- XX. **In situ formed silica nanofiber reinforced UV-curable phenylphosphine oxide containing coatings**
KAYAMAN APOHAN N., KARATAŞ S., Bilen B., Guengoer A.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.46, no.1, pp.87-97, 2008 (SCI-Expanded)
- XXI. **An alternative supporting electrolyte for enzyme immobilization in conducting polymers**
Kiralp S., Balik B., KARATAŞ S., Toppare L., Gungorb A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.42, no.2, pp.191-194, 2008 (SCI-Expanded)
- XXII. **Synthesis and characterization UV-curable organic-inorganic of flame retarding hybrid coatings**
Karatas S., Hosgor Z., Menciloglu Y., Kayaman-Apohan N., Gungor A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.2, pp.1906-1914, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Multi-Walled Carbon Nanotube Reinforced Polyimide Composites**
OKTAY B., Türker S., KARATAŞ S., KAYAMAN APOHAN N.
Journal of the Turkish Chemical Society, Section A: Chemistry, pp.283-294, 2018 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis of Bio-Based Polymer Nanocomposite Materials and Their Coating Applications**

Abdurrahmanoğlu S., Karataş S.

Paintistanbul and Turkcoat 2018, İstanbul, Turkey, 20 - 21 March 2018, pp.16

- II. **Polyurethane Nanocomposite Materials Containing Phosphorus and Fluorine and Their Coating Applications**
KARATAŞ S.
(International Conference on New Trends in Chemistry, ICNTC 2017), 28 - 30 April 2017
- III. **UV Curable Polyurethane Coating Materials Based Siloxane and Investigation of Their Thermal Properties**
KARATAŞ S., MERT Ç.
. ITWCCST 2015 (1stInternational Turkic World Conference on Chemical Sciences and Technologies) 27 October-1 November , 2015 Sarajevo, Sarajevo, Bosnia and Herzegovina., 27 October - 01 November 2015
- IV. **Synthesis and Characterization of UV Curable Waterborne Polyurethanes**
KARATAŞ S., TÜLİN G.
ITWCCST 2015 (1stInternational Turkic World Conference on Chemical Sciences and Technologies) 27 October-1 November , 2015 Sarajevo, Sarajevo, Bosnia and Herzegovina., 27 October - 01 November 2015
- V. **Synthesis and Properties of Flame Retardant Polyurethane Acrylate Material By Sol gel Method**
TOPÇU G., KARATAŞ S.
." ESOC 2015 (19th European Symposium on Organic Chemistry. 12th-16th July 2015, Lisboa, PORTUGAL., 12 - 16 July 2015
- VI. **synthesis and Properties of Hybrid Polyurethane Acrylate Coating Materials by UV Irradiation and Sol gel Method**
KARATAŞ S., BURCU H., GÜNGÖR A.
ICNTC 2015 (International Conference on New Trends in Chemistry), 24-28 March, 2015 DUBAI, 24 - 28 March 2015
- VII. **Synthesis and Characterization of UV Curable Hyper Branched Polyester Polyols Based Acrylates**
KARATAŞ S., VOLKAN D., GÜNGÖR A.
ICNTC 2015 (International Conference on New Trends in Chemistry), 24-28 March, 2015 DUBAI, 24 - 28 March 2015
- VIII. **UV ışınları ile sertleştirilebilen su bazlı polimerik yüzey kaplama malzemelerinin geliştirilmesi**
gacal t., KARATAŞ S.
AR-GE PROJE PAZARI-2013 MİTTO-İstanbul, Turkey, 11 - 12 December 2013
- IX. **UV curable hyperbranched polyester polyol based acrylates I**
dindar v., KARATAŞ S., KAYAMAN APOHAN N., güngör a.
nternational Paint and Auxillary Products Industry Congrees- İstanbul, TURKEY,2010., 14 - 17 September 2010
- X. **UV ışınlarıyla sertleşebilen süper dallanmış poliesterlerin sentezi ve karakterizasyonu**
dindar v., KARATAŞ S., KAYAMAN APOHAN N., güngör a.
XXIV. Ulusal Kimya Kongresi, Zonguldak, 2010., Turkey, 29 June - 02 July 2010
- XI. **Phosphine oxide based polyurethane silica nanocomposites via nonisocyanate route**
HOŞGÖR Z., KARATAŞ S., KAYAMAN APOHAN N., MENCELOĞLU Y. Z., güngör a.
6.Nanoscience and nanotechnology conference, zmir Institue of technolgy, İzmir, 15-18 Haziran 2010., Turkey, 15 - 18 June 2010
- XII. **Phosphorus containing novel polyimide silica nanocomposite materials via sol gel technique**
kızılkaya c., KARATAŞ S., KAYAMAN APOHAN N., güngör a.
6.Nanoscience and nanotechnology conference, zmir Institue of technolgy, İzmir, 15-18 Haziran 2010., Turkey, 15 - 18 June 2010
- XIII. **The maleimide modified epoxy resins for the preparation of UV curable hybrid coatings**
altıntaş z., KARATAŞ S., KAYAMAN APOHAN N., güngör a.
. 6.Nanoscience and nanotechnology conference, zmir Institue of technolgy, İzmir, 15-18 Haziran 2010., Turkey, 15 - 18 June 2010
- XIV. **UV Işınları İle Sertleşebilen Fosfin Oksit Bazlı Reçinelerin Sentezi Karakterizasyonu Ve Sol Jel Kaplamalarda Kullanımı**

- KARATAŞ S., HOŞGÖR Z., MENCELOĞLU Y. Z., KAYAMAN APOHAN N., güngör a.
XXII. Ulusal Kimya Kongresi, KKTC, 6-10 Ekim, 2008., Turkey, 6 - 10 October 2008
- XV. **Sol jel yöntemi ile fosfin oksit grubu içeren organo silika hibrit kaplama malzemelerinin hazırlanması ve karakterizasyonu**
KARATAŞ S., HOŞGÖR Z., KAYAMAN APOHAN N., güngör a.
XXII. Ulusal Kimya Kongresi, KKTC, 6-10 Ekim, 2008., Turkey, 6 - 10 October 2008
- XVI. **Maleid İmid Reçinelerin Sentezi Ve Kaplama Uygulamaları**
altıntaş z., KARATAŞ S., KAYAMAN APOHAN N., güngör a.
XXII. Ulusal Kimya Kongresi, KKTC, 6-10 Ekim, 2008., Turkey, 6 - 08 October 2008
- XVII. **Aleve Dayanıklı Fosfin Oksit İçeren Yeni Poliimid Silika Hibrit Kaplama Malzemelerinin Sentezi Ve Karakterizasyonu**
kızılkaya c., KARATAŞ S., KAYAMAN APOHAN N., güngör a.
XXII. Ulusal Kimya Kongresi, KKTC, 6-10 Ekim, 2008., Turkey, 6 - 10 October 2008
- XVIII. **Preparation and characterization phosphine oxide containing organosilica hybrid coatings by photopolymerization and sol gel process**
HOŞGÖR Z., KARATAŞ S., KAYAMAN APOHAN N., güngör a.
" 4.Nanobilim ve Nanoteknoloji Konferansı, İTÜ ,İstanbul 9-13 Haziran 2008., Turkey, 9 - 13 June 2008
- XIX. **Nonisocyanate based polyurethane silica nanocomposites and their coating performance**
HOŞGÖR Z., turunç o., KARATAŞ S., KAYAMAN APOHAN N., KAHRAMAN M. V., MENCELOĞLU Y. Z., güngör a.
4.Nanobilim ve Nanoteknoloji Konferansı, İTÜ ,İstanbul 9-13 Haziran 2008., Turkey, 9 - 13 June 2008
- XX. **Preparation and Characterization of Sol gel Derived UV Curable Organo silica Titania Hybrid Coatings**
kızılkaya c., KARATAŞ S., KAYAMAN APOHAN N., güngör a.
VII. International Paint and Auxillary Products Industry Congrees-- 10-12 April, İstanbul, TURKEY,2008., 10 - 12 April 2008
- XXI. **Morphological Mechanical And Thermal Investigations**
KARATAŞ S., KAYAMAN APOHAN N., güngör a.
VII. International Paint and Auxillary Products Industry Congrees- İstanbul, TURKEY,2008., 10 - 12 April 2008
- XXII. **UV Işınları ile Sertleştirilebilen Hibrit Malzemeleri ile Plexiglassın Yüzey Özelliklerinin İyileştirilmesi**
kızılkaya c., KARATAŞ S., KAYAMAN APOHAN N., güngör a.
XX. Ulusal Kimya Kongresi -Kayseri (Erciyes Üniversitesi- Fen Edebiyat Fak.) 4-8 Eylül 2006., Turkey, 4 - 08 September 2006
- XXIII. **N Kayaman Apohan M V Kahraman S Karataş Yusuf menceloğlu Atilla Güngör UV Işınları İle Sertleştirilebilen organik Anorganik Hibrit Kaplamalar**
KAYAMAN APOHAN N., KAHRAMAN M. V., KARATAŞ S., MENCELOĞLU Y. Z., güngör a.
XX. Ulusal Kimya Kongresi -Kayseri (Erciyes Üniversitesi- Fen Edebiyat Fak.) 4-8 Eylül 2006., Turkey, 4 - 08 September 2006
- XXIV. **Phosphorus Containing Novel Sulfonated Polyimides**
ÇAKIR M., KARATAŞ S., KAYAMAN APOHAN N., MENCELOĞLU Y. Z., GÜNGÖR A.
Polycondensation 2006, 27 - 30 August 2006
- XXV. **Yüksek Sıcaklıklardaki Membran Uygulamaları İçin Fosfin Oksit Bazlı Sülfolanmış Poliimidlerin İncelenmesi**
KARATAŞ S., ÇAKIR M., KAYAMAN APOHAN N., MENCELOĞLU Y. Z., birkan b., güngör a.
III. Ulusal Hidrojen Enerjisi Kongresi-İstanbul- 17 Temmuz-2006, Turkey, 17 July 2006
- XXVI. **Yüksek Sıcaklıklardaki Membran Uygulamaları İçin Fosfin oksit Bazlı Sülfolanmış Polyimidlerin İncelenmesi**
KARATAŞ S., ÇAKIR M., KAYAMAN APOHAN N., birkan b., MENCELOĞLU Y. Z., GÜNGÖR A.
3. Ulusal Hidrojen Enerji Kongresi, Turkey, 17 - 18 July 2006
- XXVII. **Phosphours Containing Novel Sulfonated Polyimides**
ÇAKIR M., KARATAŞ S., MENCELOĞLU Y. Z., GÜNGÖR A.
Polycondensation Koç University, İstanbul, TURKEY, August 27-30, 2006., 27 - 30 August 2006

- XXVIII. **Trifenil fosfin Oksit İçeren Polimerlerin ATRP ile Sentezi**
türel b., KARATAŞ S., SERHATLI İ. E., güngör a.
XIX. Ulusal Kimya Kongresi- Kuşadası(Ege Üniversitesi Fen Fakültesi) 30 Eylül-4 Ekim 2005., Turkey, 30 September - 04 October 2005
- XXIX. **UV Curable hybrid coatings based on a novel organoalkoxy silane precursor**
KAYAMAN APOHAN N., KARATAŞ S., KAHRAMAN M. V., MENCELOĞLU Y. Z., GÜNGÖR A.
40th IUPAC Congress, Beijing-China, 14-19 August 2005, 14 - 19 August 2005
- XXX. **UV Curable Hybrid Materials Containing Phosphine Oxide Prepared By Sol gel Process**
KARATAŞ S., MENCELOĞLU Y. Z., KAYAMAN APOHAN N., Güngör A.
6th Advanced Polymers via Macromolecular Engineering (APME, 15 - 19 August 2005
- XXXI. **L DOPA Sentezinde Kullanılacak Substratların Sentezi**
KARATAŞ S., YELEKÇİ K.
XII. Ulusal Kimya Kongresi – Edirne (Trakya Üniversitesi Fen-Edb. Fak.) 7-11 Eylül 1998., Turkey, 7 - 11 September 1998

Metrics

Publication: 55
Citation (WoS): 237
Citation (Scopus): 269
H-Index (WoS): 10
H-Index (Scopus): 11

Coaching Duties

Refereeing Duties

Non Academic Experience

- I. Marmara Üniversitesi
- II. Marmara Üniversitesi