

## Prof. Mustafa YAVUZ

### Personal Information

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### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, -, Turkey Continues

Post Graduate, Inonu University, Fen Bilimleri Enstitüsü, -, Turkey Continues

Under Graduate, Ataturk University, Kazım Karabekir Eğitim Fakültesi, Kimya Öğretmenliği, Turkey Continues

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Bazı Polimerik Sistemlerin Oluşturduğu Süspansiyonların Elektoreolojik Özelliklerinin İncelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Kimya Bölümü, 2000

Post Graduate, İyodürün Bazık Ortamde Platin ve Grafit Elektrotlarla Yükseltgenme Tepkimelerinin İncelenmesi, Inonu University, Fen Bilimleri Enstitüsü, Kimya Bölümü, 1994

### Research Areas

Chemistry, Physical Chemistry, Natural Sciences

### Academic Titles / Tasks

Professor, Suleyman Demirel University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2015 - Continues

Associate Professor, Suleyman Demirel University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2010 - 2015

Assistant Professor, Suleyman Demirel University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2001 - 2010

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, 1999 - 2000

Research Assistant, Suleyman Demirel University, Fen Edebiyat Fakültesi, Kimya Bölümü, 1993 - 1999

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

#### I. Colloidal and viscoelastic properties of expanded perlite dispersions

Cabuk M., Yesil T. A. , YAVUZ M., ÜNAL H. İ.

JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, vol.29, no.1, pp.32-40, 2018 (Journal Indexed in SCI)

- II. **TEMPO-treated CNF Composites: Pulp and Matrix Effect**  
 Poyraz B., Tozluoglu A., Candan Z., Demir A., YAVUZ M., Buyuksari U., Unal H. I. , Fidan H., Saka R. C.  
 FIBERS AND POLYMERS, vol.19, no.1, pp.195-204, 2018 (Journal Indexed in SCI)
- III. **Influence of PVA and silica on chemical, thermo-mechanical and electrical properties of Celluclast-treated nanofibrillated cellulose composites**  
 Poyraz B., Tozluoglu A., Candan Z., Demir A., YAVUZ M.  
 INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.104, pp.384-392, 2017 (Journal Indexed in SCI)
- IV. **Biofilms from micro/nanocellulose of NaBH<sub>4</sub>-modified kraft pulp**  
 TOZLUOĞLU A., POYRAZ B., Candan Z., YAVUZ M., Arslan R.  
 BULLETIN OF MATERIALS SCIENCE, vol.40, no.4, pp.699-710, 2017 (Journal Indexed in SCI)
- V. **Biofilms from micro/nanocellulose of NaBH<sub>4</sub>-modified kraft pulp**  
 TOZLUOĞLU A., POYRAZ B., CANDAN Z., YAVUZ M., ARSLAN R.  
 BULLETIN OF MATERIALS SCIENCE, vol.40, no.4, pp.699-710, 2017 (Journal Indexed in SCI)
- VI. **Electrokinetic, electrorheological and viscoelastic properties of Polythiophene-graft-Chitosan copolymer particles**  
 Cabuk M., YAVUZ M., Unal H. I.  
 COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.510, pp.231-238, 2016 (Journal Indexed in SCI)
- VII. **Colloidal, electrorheological, and viscoelastic properties of polypyrrole-graft-chitosan biodegradable copolymer**  
 Cabuk M., YAVUZ M., Unal H. I.  
 JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, vol.26, no.14, pp.1799-1810, 2015 (Journal Indexed in SCI)
- VIII. **Synthesis, Characterization, and Enhanced Antibacterial Activity of Chitosan-Based Biodegradable Conducting Graft Copolymers**  
 Cabuk M., YAVUZ M., Unal H. I. , Alan Y.  
 POLYMER COMPOSITES, vol.36, no.3, pp.497-509, 2015 (Journal Indexed in SCI)
- IX. **Synthesis, characterization and antimicrobial activity of biodegradable conducting polypyrrole-graft-chitosan copolymer**  
 Cabuk M., Alan Y., YAVUZ M., Unal H. I.  
 APPLIED SURFACE SCIENCE, vol.318, pp.168-175, 2014 (Journal Indexed in SCI)
- X. **Electrokinetic properties of biodegradable conducting polyaniline-graft-chitosan copolymer in aqueous and non-aqueous media**  
 Cabuk M., YAVUZ M., Unal H. I.  
 COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.460, pp.494-501, 2014 (Journal Indexed in SCI)
- XI. **Synthesis, characterization and electrorheological properties of biodegradable chitosan/bentonite composites**  
 Cabuk M., YAVUZ M., Unal H. I. , Erol O.  
 CLAY MINERALS, vol.48, no.1, pp.129-141, 2013 (Journal Indexed in SCI)
- XII. **Irradiation effects on transport properties of polyaniline and polyaniline/bentonite composite**  
 TİLKİ T., Karabulut O., YAVUZ M., KAPLAN A., Cabuk M., Takanoglu D.  
 MATERIALS CHEMISTRY AND PHYSICS, vol.135, pp.563-568, 2012 (Journal Indexed in SCI)
- XIII. **Electrical transport, optical and thermal properties of polyaniline-pumice composites**  
 Yilmaz K., Akgoz A., ÇABUK M., Karaagac H., Karabulut O., YAVUZ M.  
 MATERIALS CHEMISTRY AND PHYSICS, vol.130, no.3, pp.956-961, 2011 (Journal Indexed in SCI)
- XIV. **Investigation of electrorheological properties of biodegradable modified cellulose/corn oil suspensions**  
 TİLKİ T., YAVUZ M., Karabacak C., Cabuk M., Uluturk M.  
 CARBOHYDRATE RESEARCH, vol.345, no.5, pp.672-679, 2010 (Journal Indexed in SCI)

- XV. **Electrorheological behavior of biodegradable modified corn starch/corn oil suspensions**  
YAVUZ M., TILKI T., Karabacak C., Erol O., Unal H. I., ULUTURK M., Cabuk M.  
CARBOHYDRATE POLYMERS, vol.79, no.2, pp.318-324, 2010 (Journal Indexed in SCI)
- XVI. **Some Novel Conducting Polythiophene Derivatives: Theoretical Analysis, Synthesis, Characterization and Electrorheological Properties**  
Uygun A., Sen S., Aytemiz N., TILKI T., Yavuz A. G., Maslakci Z., Karabacak C., YAVUZ M.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.47, no.5, pp.435-444, 2010 (Journal Indexed in SCI)
- XVII. **Investigation of Electrorheological Properties and Creep Behavior of Poly(oxyethylene)/Polythiophene Composites**  
Eyrik M., YAVUZ M., ÜNAL H. İ., SARI B.  
POLYMER COMPOSITES, vol.30, no.9, pp.1345-1352, 2009 (Journal Indexed in SCI)
- XVIII. **Synthesis, Characterization, and Electrorheological Properties of Polyindene/Calcium Carbonate Composites**  
Sarıkaya S., YAVUZ M., Yılmaz H., ÜNAL H. İ., SARI B.  
POLYMER COMPOSITES, vol.30, no.5, pp.583-590, 2009 (Journal Indexed in SCI)
- XIX. **An economic removal of Cu<sup>2+</sup> and Cr<sup>3+</sup> on the new adsorbents: Pumice and polyacrylonitrile/pumice composite**  
YAVUZ M., GÖDE F., Pehlivan E., ÖZMERT S., Sharma Y. C.  
CHEMICAL ENGINEERING JOURNAL, vol.137, no.3, pp.453-461, 2008 (Journal Indexed in SCI)
- XX. **Electrorheological properties of polyaniline/red mud composite**  
YAVUZ M., Gok A. U., Sen S., Unal H. I.  
INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION, vol.13, no.1, pp.9-24, 2008 (Journal Indexed in SCI)
- XXI. **Electrorheological properties of polyaniline/pumice composite suspensions**  
Yavuz M.  
CHINESE JOURNAL OF POLYMER SCIENCE, vol.25, no.4, pp.347-355, 2007 (Journal Indexed in SCI)
- XXII. **Comparison of electrorheological properties of some polyaniline derivatives**  
Gercek B., Yavuz M., Yılmaz H., Sari B., Unal H. I.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.299, pp.124-132, 2007 (Journal Indexed in SCI)
- XXIII. **Electrorheological properties of pumice/silicone oil suspension**  
Yavuz M., Cabuk M.  
JOURNAL OF MATERIALS SCIENCE, vol.42, no.6, pp.2132-2137, 2007 (Journal Indexed in SCI)
- XXIV. **Electrorheological properties of suspensions prepared from polystyrene-block polyisoprene copolymer**  
Yavuz M., ÜNAL H. İ., YILDIRIR Y.  
TURKISH JOURNAL OF CHEMISTRY, vol.25, no.1, pp.19-32, 2001 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Colloidal and Electrorheological Properties of Conducting Polyaniline Bentonite Composite in Silicone Oil Medium**  
ÇABUK M., YESİL T. A., YAVUZ M., ÜNAL H. İ.  
Current Smart Materials, vol.2, pp.1-8, 2017 (Refereed Journals of Other Institutions)
- II. **Investigation of Irradiation Effects on Conducting Composite of Polypyrrole/Bentonite**  
KARABULUT O., TILKI T., YAVUZ M., KAPLAN A., TAKANOGLU D., ÇABUK M., Doğan S.  
Süleyman Demirel University, Arts and Sciences Faculty, Journal of Science (E-journal), vol.7, no.2, pp.112-122, 2012 (National Refreed University Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **İletken POLimer/Doğal Polimer Komozitleri ve Elektoreolojik Özellikleri**  
YAVUZ M., ÇABUK M.  
1. International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 December 2017
- II. **Comparison of Bentonite and Sn Doped Bentonite Samples Under the Effects of Proton and Electron Irradiation**  
TİLKİ T., ŞEKERCİ M., ÇAPALI V., KAPLAN A., YAVUZ M.  
12th International Conference on Interaction of Radiation with Solids (IRS-2017), Minsk, Belarus, 19 - 22 September 2017, pp.111-113
- III. **Investigation of Proton and Electron Irradiation Effects on Perlite and Different Rate Lead Containing Samples of Perlite**  
YAVUZ M., ÇAPALI V., ŞEKERCİ M., KAPLAN A., TİLKİ T.  
12th International Conference on Interaction of Radiation with Solids (IRS-2017), Minsk, Belarus, 19 - 22 September 2017, pp.116-118
- IV. **Electrokinetic and Electrorheological properties of organo-perlite particles**  
ÇABUK M., YAVUZ M.  
3rd International Porous and Powder Materials Symposium and Exhibition (PPM 2017), Kuşadası/Aydın, Turkey, 12 - 15 September 2017
- V. **Colloidal properties of chitosan/expanded perlite composites in aqueous and non-aqueous media**  
ÇABUK M., YAVUZ M.  
The 13th Zsigmondy colloquium of the German Colloid Society, Saarbrücken, Germany, 5 - 07 April 2017
- VI. **Geant4 Simulations of Radiation Effects on Al and B Reinforced Kevlar Used as Shielding Material**  
YEŞİL T. A. , ŞEKERCİ M., YAVUZ M., ÖZCAN Y.  
2nd International Turkic World Conference on Chemical Sciences and Technologies, Üsküp, Macedonia, 26 - 30 October 2016, pp.83
- VII. **Polietilenin Bazı Nükleer Reaksiyonlar ile Etkileşiminin GEANT4 Benzetimi Kullanılarak İncelenmesi**  
ACAR YEŞİL T., ÇAPALI V., ŞEKERCİ M., YAVUZ M., TİLKİ T.  
XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Turkey, 12 - 14 October 2016
- VIII. **Polietilenin Bazı Nükleer Reaksiyonlar İle Etkileşiminin GEANT4 Benzetimi Kullanılarak İncelenmesi**  
YEŞİL T. A. , ÇAPALI V., ŞEKERCİ M., YAVUZ M., TİLKİ T.  
XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Kuşadası, Turkey, 12 - 14 October 2016, pp.99
- IX. **Electrokinetic Properties of polypyrrole Expanded perlite Conducting Composite**  
Yeşil T. A. , YAVUZ M., ÇABUK M., TİLKİ T., ÜNAL H. İ.  
30th conference of The European Colloid and Interface Society, 4 - 09 September 2016
- X. **Electrorheological Response of Expanded Perlite Dispersions**  
ÇABUK M., YAVUZ M., Yeşil T. A.  
ERM2016 The 15th International Conference on Electrorheological Fluids and Magnetorheological Suspensions, 4 - 08 July 2016
- XI. **Electrokinetic and Viscoelastic Properties of Expanded perlite Dispersions**  
ÇABUK M., Yeşil T. A. , ÜNAL H. İ. , YAVUZ M.  
ERM2016 The 15th International Conference on Electrorheological Fluids and Magnetorheological Suspensions, 4 - 08 July 2016
- XII. **Efficiency of some enzymes in nanocellulose production**  
TOZLUOĞLU A., çöpür y., POYRAZ B., YAVUZ M., McDonald A. G. , CANDAN Z.  
Cost FP1205 Innovative applications and regenerated wood cellulose fibres, 13 - 14 April 2016
- XIII. **Colloidal Viscoelastic and Antibacterial Properties of Polythiophene graft Chitosan Copolymer Particles**  
ÇABUK M., YAVUZ M., ÜNAL H. İ.  
29th ECIS Conference, Bordeaux, France, 6 - 11 September 2015
- XIV. **Electrokinetic and heavy metal adsorption properties of polypyrrole graft chitosan colloidal**

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ÇABUK M., Öztaş M., YAVUZ M., ÜNAL H. İ., GÖDE F.

29th ECIS Conference, Bordeaux, France, 6 - 11 September 2015

- XV. **Radiation Effects Simulation of Some Polymers with Geant4 Used for Medical Purposes**  
ACAR YEŞİL T., ÇAPALI V., KAYA G., YAVUZ M., TİLKİ T.  
International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT2016), 28 - 30 April 2015
- XVI. **Geant4 calculations for space radiation shielding material Al<sub>2</sub>O<sub>3</sub>**  
ÇAPALI V., Yesil T. A., Kaya G., KAPLAN A., YAVUZ M., TİLKİ T.  
International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT), Osmaniye, Turkey, 23 - 26 April 2015, vol.100
- XVII. **Irradiation Effect on Transport Properties of Polyaniline and Polyaniline Bentonite Composites**  
TİLKİ T., KARABULUT O., YAVUZ M., KAPLAN A., takanoğlu d., ÇABUK M.  
Conducting Polymers, 10 - 14 June 2011
- XVIII. **Investigation of Irradiation Effect on Conductivity Composite of Polypyrrole Bentonite**  
TİLKİ T., YAVUZ M., KAPLAN A., KARABULUT O., doğan s., takanoğlu d.  
Conducting Polymers, 10 - 14 June 2011
- XIX. **Kitosanın Benzaldehit ile Modifikasyonu ve Modifiye Kitosan Bentonit Nanokompozit Sentezi**  
ÇABUK M., YAVUZ M., lavac J. H., TİLKİ T.  
23. Ulusal Kimya Kongresi, Turkey, 26 - 30 June 2009
- XX. **Biodegradable Modified Corn Starch and Its Electrorheological Properties**  
YAVUZ M., TİLKİ T., ÇABUK M., ulutürk m.  
1. International Symposium on Sustainable Development, 9 - 10 June 2009
- XXI. **Electrorheological Properties of Environmental Friendly Modified Cellulose**  
TİLKİ T., YAVUZ M., ÇABUK M., KARABACAK ATAY Ç.  
1. International Symposium on Sustainable Development, 9 - 10 June 2009
- XXII. **Synthesis and Characterization of Poly 3 2 5 Dimethyl 4 tienyl Phenyl Tiyophene P3DMTPT  
Electrorheological Properties the Some Electrical Properties of the P3DMTPT n InP Structure**  
ÖKSÜZ A., ŞEN GÜR SOY S., yavuz a. g., TİLKİ T., KARABACAK ATAY Ç., maslakçı z., YAVUZ M., AYTEMİZ N.  
International Conference on Advanced in Polymer Science & Technology, 11 December 2008
- XXIII. **Modifiye Edilmiş biyobozunur Selülozun Elektroeolojik Özelliklerinin İncelenmesi**  
KARABACAK ATAY Ç., ulutürk m., ÇABUK M., TİLKİ T., YAVUZ M.  
XXII. Ulusal Kimya Kongresi, Turkey, 6 - 10 October 2008
- XXIV. **Modifiye Edilmiş biyobozunur Mısır Nişastasının Elektroeolojik Özelliklerinin İncelenmesi**  
ulutürk m., KARABACAK ATAY Ç., ÇABUK M., YAVUZ M., TİLKİ T.  
XXII. Ulusal Kimya Kongresi, Turkey, 6 - 10 October 2008
- XXV. **Bazı Substitüe Tiyofen Türevlerinin Sentezi**  
TİLKİ T., KARABACAK ATAY Ç., YAVUZ M.  
XXI. Ulusal Kimya Kongresi, Turkey, 23 - 27 August 2007

## Activities in Scientific Journals

SDÜ Fen Edebiyat Fakültesi Fen Dergisi, Assistant Editor, 2006 - Continues

## Memberships / Tasks in Scientific Organizations

Türkiye Polimer Bilim ve Teknolojisi Derneği, Member, 2001 - Continues

## **Scientific Refereeing**

Afyon Kocatepe Üniversitesi Fen ve mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, February 2018

Project Supported by Higher Education Institutions, February 2018

Carbohydrate Polymers, SCI Journal, January 2018

Journal of Industrial and Engineering Chemistry, SCI Journal, January 2018

## **Citations**

Total Citations (WOS):342

h-index (WOS):10