

## Prof. SEDAT ONDARAL

### Personal Information

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### Education Information

Post Doctorate, Royal Institute of Technology, Fiber And Polymer Technology, Fiber Technology, Sweden 2008 - 2009  
Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Lif Ve Kağıt Teknolojisi Anabilim Dalı, Turkey 2001 - 2007

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Lif Ve Kağıt Teknolojisi Anabilim Dalı, Turkey 1998 - 2001

Undergraduate, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, Turkey 1994 - 1998

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Suda Çözülebilir Çapraz Bağlı Polimerlerin Dispersiyon Polimerizasyonu İle Sentezi ve Kağıt Üretiminde Farklı Uygulamalardaki Performansları, Karadeniz Technical University, Orman Fakültesi, Ormn Endüstri Mühendisliği Bölümü, 2007

Postgraduate, Gazete Kağıdı Üretiminde Anyonik Poliakrilamidin Kırıntı Materyal tutunumu Üzerine Etkisi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Lif Ve Kağıt Teknolojisi Anabilim Dalı, 2001

### Research Areas

Agricultural Sciences, Forestry, Forest Industry Engineering, Forest Products Chemistry and Technology, Forest Products Chemistry, Pulp (pulp), Paper and cardboard production technology, Paper surface coating, Paper packaging technology, Paper recycling, Chemical Engineering and Technology, Chemical Technologies, Polymer Technology, Metallurgical and Materials Engineering, Material science and engineering, Nanomaterials, Cellulosic Materials, Engineering and Technology

### Academic Titles / Tasks

Professor, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, 2019 - Continues

Associate Professor, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, 2012 - 2019

Assistant Professor, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, 2008 - 2012

Research Assistant PhD, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, 2007 - 2008

## Advising Theses

ONDARAL S., Nano ve Mikrofibril Selülozların Kağıt Üretiminde Kullanımı ve Kuartz Kristal Mikro Teraziler ile Adsorpsiyon Çalışmaları, Postgraduate, G.Hocaoğlu(Student), 2015

ONDARAL S., Biyopolielektrolit Komplekslerin Üretimi ve Kuru Sağlamlık Maddesi Olarak Kağıt Üretiminde Kullanımı, Postgraduate, M.Emin(Student), 2014

ONDARAL S., Kağıt Üretiminde Katyonik Poliakrilamid/Bentonit Esaslı Mikropartikül Kümelendirme Sisteminin Dolgu Maddesi Tutunumu ve Süzülme Prosesindeki Etkinliği, Postgraduate, O.Çağlar(Student), 2010

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Different amount of carboxyl-aldehyde fractionated nanofibril cellulose and main characteristics of chitosan, gelatin, alginate added composites**  
Kurtuluş O. Ç., ONDARAL S., Emin N., Aşıkuzun E.  
International Journal of Biological Macromolecules, vol.242, 2023 (SCI-Expanded)
- II. **Use of Glyoxal in Starch Based Sizing Mixture for Surface Modification of Paper**  
Akn A. E., Canbolat D., Ondaral S.  
DREWNO, vol.66, no.211, 2023 (SCI-Expanded)
- III. **The adsorption of phosphate-buffered saline to model films composed of nanofibrillated cellulose and gelatin**  
ONDARAL S., Celik E., Kurtulus O. C.  
JOURNAL OF APPLIED BIOMATERIALS & FUNCTIONAL MATERIALS, vol.17, no.1, 2019 (SCI-Expanded)
- IV. **Chitosan adsorption on nanofibrillated cellulose with different aldehyde content and interaction with phosphate buffered saline**  
ONDARAL S., Celik E., Kurtulus O. C., AŞIKUZUN E., Yakin I.  
CARBOHYDRATE POLYMERS, vol.186, pp.192-199, 2018 (SCI-Expanded)
- V. **Aldehyde Starch Complexes: Adsorption on Cellulose Model Film and Performance as a Strength Additive for Papermaking**  
ONDARAL S., Kurtulus O. C., Ozturk G., Ergun M. E., Yakin I.  
BIORESOURCES, vol.13, no.2, pp.4470-4483, 2018 (SCI-Expanded)
- VI. **Adsorption of Xyloglucan onto Cellulose Surfaces of Different Morphologies: An Entropy-Driven Process**  
Benselfelt T., Cranston E. D., ONDARAL S., Johansson E., Brumer H., Rutland M. W., Wagberg L.  
BIOMACROMOLECULES, vol.17, no.9, pp.2801-2811, 2016 (SCI-Expanded)
- VII. **CATIONIC AND ANIONIC NANOFIBRILLATED CELLULOSES AS DRY STRENGTH ADDITIVES FOR PAPERMAKING**  
ONDARAL S., Hocaoglu G., Ergun M. E.  
CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.49, pp.617-623, 2015 (SCI-Expanded)
- VIII. **Cationic And Anionic Nanofibrillated Celluloses As Dry Strength Additives For Papermaking**  
ONDARAL S., Hocaoglu G., Ergun M. E.  
CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.49, pp.617-623, 2015 (SCI-Expanded)
- IX. **The efficiency of tannin as a formaldehyde scavenger chemical in medium density fiberboard**  
Boran S., USTA M., ONDARAL S., GÜMÜŞKAYA E.  
COMPOSITES PART B-ENGINEERING, vol.43, no.5, pp.2487-2491, 2012 (SCI-Expanded)
- X. **Effect of fiber modification with carboxymethyl cellulose on the efficiency of a microparticle flocculation system**  
ONDARAL S., Kurtulus O. C., USTA M.

CHEMICAL PAPERS, vol.65, no.1, pp.16-22, 2011 (SCI-Expanded)

- XI. **Effects of Dissolved Organic Compounds and Electrolyte on Precipitated Calcium Carbonate Retention in Papermaking**  
ONDARAL S., USTA M.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.49, no.23, pp.12185-12190, 2010 (SCI-Expanded)
- XII. **Using jet mixing to prepare polyelectrolyte complexes: Complex properties and their interaction with silicon oxide surfaces**  
Ankerfors C., ONDARAL S., Wagberg L., Odberg L.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.351, no.1, pp.88-95, 2010 (SCI-Expanded)
- XIII. **Surface-Induced Rearrangement of Polyelectrolyte Complexes: Influence of Complex Composition on Adsorbed Layer Properties**  
ONDARAL S., Ankerfors C., Odberg L., Wagberg L.  
LANGMUIR, vol.26, no.18, pp.14606-14614, 2010 (SCI-Expanded)
- XIV. **The Synthesis of Water Soluble Cationic Microgels by Dispersion Polymerization: Their Performance in Kaolin Deposition Onto Fiber**  
ONDARAL S., USTA M., GÜMÜŞDERELİOĞLU M., ARSU N., Balta D. K.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.116, no.2, pp.1157-1164, 2010 (SCI-Expanded)
- XV. **Adsorption of xyloglucan on the smooth celluloses films with different crystallinity**  
Wagberg L., Ondaral S., Brumer H.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.239, 2010 (SCI-Expanded)
- XVI. **Termite Resistance of MDF Panels Treated with Various Boron Compounds**  
Usta M., Ustaömer D., Kartal S. N., Ondaral S.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.10, no.6, pp.2789-2797, 2009 (SCI-Expanded)
- XVII. **Fixation of dissolved and colloidal substances on fibres and silicon oxide surfaces using water soluble cross-linked cationic polymers**  
ONDARAL S., USTA M., Wagberg L., Gümüşderelioğlu M., ONDARAL M.  
CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.42, pp.61-69, 2008 (SCI-Expanded)
- XVIII. **FIXATION OF DISSOLVED AND COLLOIDAL SUBSTANCES ON FIBERS AND SILICON OXIDE SURFACES USING WATER SOLUBLE CROSSLINKED CATIONIC POLYMERS**  
ONDARAL S., USTA M., Wagberg L., GÜMÜŞDERELİOĞLU M., ONDARAL M.  
CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.42, pp.61-69, 2008 (SCI-Expanded)
- XIX. **Comparative Properties of Pulp and Paper Obtained From Kraft-ethanol and Kraft-Ethylene Glycol Properties**  
USTA M., BORAN S., GÜMÜŞKAYA E., ONDARAL S., BALABAN M.  
CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.41, pp.313-320, 2007 (SCI-Expanded)
- XX. **Comparative properties of the pulp and paper obtained from kraft-ethanol and kraft-ethylene glycol processes**  
USTA M., Boran S., GÜMÜŞKAYA E., ONDARAL S., Balaban M.  
CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.41, pp.311-318, 2007 (SCI-Expanded)
- XXI. **Hyperbranched polymers as a fixing agent for dissolved and colloidal substances on fiber and SiO<sub>2</sub> surfaces**  
Wagberg L., Ondaral S., Enarsson L.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.46, no.7, pp.2212-2219, 2007 (SCI-Expanded)
- XXII. **The adsorption of hyperbranched polymers on silicon oxide surfaces**  
Ondaral S., Wagberg L., Enarsson L.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.301, no.1, pp.32-39, 2006 (SCI-Expanded)
- XXIII. **The Effects of Oxygen and Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) on the Crystalline Structure of Cellulose During Soda Pulping**  
Gümüşkaya E., Usta M., Odabaş Serin Z., Ondaral S., Ustaömer D.  
Cellulose Chemistry And Technology, vol.40, pp.259-264, 2006 (SCI-Expanded)
- XXIV. **The effects of oxygen and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) on the crystalline structure of cellulose during**

## soda pulping

Guemueskaya E., usta M. U., Serin Z. O., Ondaral S., Ustaömer D.

CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.40, pp.259-264, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The effect of the use of Dimethyloldihydroxyethyleneurea (DMDHEU) chemical in MDF production on the board properties** <https://turkce-ingilizce.cumleceviri.gen.tr/ceviri4/1610465-mdf-uretiminde-dimetiloldihidroksietilenure-dmdheu-kimyasali-kullaniminin-levha-ozelliklerine-etkisi>  
Ondaral M., Usta M., Ondaral S.  
Ormançılık Araştırma Dergisi, vol.9, no.Özel sayı, pp.329-335, 2022 (Peer-Reviewed Journal)
- II. **Increasing the interaction of Calcium Carbonate with Cellulosic Fibers**  
Canbolat D., Ondaral M., Çakar K., Hezer E., Özcan Ş. E., Ondaral S.  
Ormançılık Araştırma Dergisi, vol.9, no.özel, pp.200-204, 2022 (Peer-Reviewed Journal)
- III. **PLS Kontrol Ünitesi İlaveli Presle Farklı Pres Şartları Altında Üretilen MDF'lerin Bazı Fiziksel ve Mekanik Özellikleri**  
BORAN S., USTA M., ONDARAL S.  
Bartın Üniversitesi Orman Fakültesi Dergisi, vol.1, pp.278-287, 2009 (Peer-Reviewed Journal)
- IV. **The Performance of Anionic Polyacrylamide as A Retention Aid in Newsprint Production**  
ONDARAL S.  
Kafkas Üniversitesi, Artvin Orman Fakültesi Dergisi, vol.1, no.2, pp.24-30, 2004 (Peer-Reviewed Journal)
- V. **Buğday (Triticum aestivum L.) Sapı Soda-Oksijen Kağıt Hamurunun Kimyasal ve Kristal Yapısı ile optik Özellikleri Arasındaki İlişkiler**  
GÜMÜŞKAYA E., Serin Z., ONDARAL S., USTAÖMER D.  
Kafkas Üniversitesi - Artvin Orman Fakültesi Dergisi, vol.1, no.2, pp.14-20, 2003 (Peer-Reviewed Journal)
- VI. **Buğday (Triticum aestivum L.) Sapı Soda-Oksijen Kağıt Hamurunun Kimyasal ve Kristal Yapısı ile Optik Özellikleri Arasındaki İlişkiler**  
GÜMÜŞKAYA E., Serin Z., Ondaral S., Ustaömer D.  
Kafkas Üniversitesi Artvin Orman Fakültesi Dergisi, vol.4, pp.14-21, 2003 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **PROPERTIES AND INDUSTRIAL VALUE OF WOOD MATERIALS AFTER FOREST FIRE**  
Ondaral S., Canbolat D.  
in: Forest Fires, Prof. Dr. Ali Kavgacı, Dr. Mehmet Ali Başaran, Editor, Türkiye Ormançılar Derneği, Ankara, pp.394-406, 2023
- II. **Türkiye Ormançılığı: 2019**  
AKSOY N., ÖZALP ALAGÖZ G., ATMİŞ E., AYANOĞLU S., BİLGİLİ Y., CEBECİ M. A., ÇOLAK A. H., ÇOSGUN U., ERDÖNMEZ C., ERTUĞRUL M., et al.  
Türkiye Ormançılar Derneği, Kuban Matbaacılık Yayıncılık, Ankara, 2019

## Refereed Congress / Symposium Publications in Proceedings

- I. **Usage Of Styrene Acrylate Copolymer And Polyethylene Glycol For Surface Sizing Of Paper**  
Akn A. E., Ondaral S., Canbolat D.  
4TH INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY  
(EURASIANSCIENTECH 2022) 4TH INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY (EURASIANSCIENTECH 2022), Ankara, Turkey, 14 - 16 December 2022, vol.1, no.1, pp.1548-1555

- II. **KALSİYUM KARBONATIN SELÜLOZİK LİFLERLE ETKİLEŞİMİNİN ARTIRILMASI**  
Canbolat D., Ondaral M., Çakar K., Hezer E., Özcan Ş. E., Ondaral S.  
IV. Ulusal Ormancılık Kongresi, Trabzon, Turkey, 6 - 09 December 2021, pp.50
- III. **MDF Üretiminde Dimetilol Dihidroksi Etilen Üre (DMDHEU) Kimyasalı Kullanımının Levha Özelliklerine Etkisi**  
Ondaral M., Usta M., Ondaral S.  
IV. Ulusal Ormancılık Kongresi, 6 - 09 December 2021, pp.51
- IV. **Kalsiyum Karbonatın Selülozik Liflerle Etkileşiminin Artırılması**  
CANBOLAT D., ONDARAL M., ÇAKAR K., ONDARAL S.  
IV. Ulusal Karadeniz Ormancılık Kongresi, Trabzon, Turkey, 6 - 09 December 2021, vol.1, pp.50
- V. **Effect of Dimethyloldihydroxyethyleneurea (DMDHEU) Chemical Use on Board Properties in Medium Density Fiberboard (Mdf) Production**  
Ondaral M., Usta M., Ondaral S.  
Başkent Congress on Physical, Social and Health Sciences, Ankara, Turkey, 16 - 17 July 2021, vol.1, pp.77
- VI. **USE OF SILICONE BASED CHEMICALS IN THE MEDIUM DENSITY FIBERBOARD PRODUCTION**  
ONDARAL M., USTA M., ONDARAL S.  
ORENKO-International Forest Products Congress, Trabzon, Turkey, 25 - 29 September 2018
- VII. **Producing of Nanocellulose-Gelatin Based Composites**  
KURTULUŞ O. Ç., EMİN N., AŞIKUZUN E., ONDARAL S.  
1st International Technology Sciences and Design Symposium, Giresun, Turkey, 27 - 29 June 2018
- VIII. **The History of Papermaking Industry in Turkey: Past, Today, and Future**  
ONDARAL S.  
GeTID&teh 2017, Travnik, Bosnia And Herzegovina, 20 - 22 November 2017, pp.2
- IX. **Studies on biopolymeric additives for papermaking**  
ONDARAL S.  
GeTID&teh 2017, Travnik, Bosnia And Herzegovina, 20 - 22 November 2017, pp.1
- X. **STUDIES ON BIOPOLYMERIC ADDITIVES FOR PAPERMAKING-1**  
ONDARAL S.  
GeTID&teh 2017, 20 - 22 October 2017
- XI. **Studies on Biopolymeric Additives for Papermaking**  
ONDARAL S.  
XXII INTERNATIONAL SYPOSIUM IN THE FIELD OF PULP, PAPER, PACKAGING AND GRAPHICS, Zlatibor, Serbia And Montenegro, 13 - 16 June 2017, pp.69-78
- XII. **Anyonik ve Katyonik Nisastadan Üretilen Biyopolielektrolit Komplekslerin Kâğıt Üretiminde Kullanımı**  
**Biopolyelectrolyte Complexes Produced From Anionic and Cationic Starch Use of Papermaking**  
ONDARAL S., KURTULUŞ O. Ç., Güliz Ö.  
INES Academic Researches Congress, 3 - 05 November 2016
- XIII. **Production of Nanofibrillated Cellulose Based Aerogels**  
Kurtuluş O. Ç., ONDARAL S., Hocaoğlu G.  
1st International Academic Research Symposium, Antalya, Turkey, 3 - 05 November 2016, pp.3231-3237
- XIV. **NANOFIBRIL CELLULOSE BASED AEROGEL PRODUCTION**  
ONDARAL S., KURTULUŞ O. Ç., Öztürk G.  
INES Academic Researches Congress, 3 - 05 November 2016
- XV. **Karboksümetil Selüloz ve Ni astadan Üretilen Biyopolielektrolit Komplekslerin Kâğıt Üretiminde Kuru Sağlamlık Kimyasalı Olarak Kullanılması**  
ERGÜN M. E., ONDARAL S.  
2. Uluslararası Multidisipliner Avrasya Kongresi, 11 - 13 July 2016
- XVI. **Their Potential Applications In Papermaking**  
USTA M., ONDARAL S.  
XX. INTERNATIONAL SYMPOSIUM IN THE FIELDS OF PULP, PAPER, PACKAGING AND GRAPHICS, Zlatibor, Serbia, 16 - 19 June 2015

- XVII. Water Soluble Cationic Microgel: Their Potential Applications In Papermaking**  
USTA M., ONDARAL S.  
20 INTERNATIONAL SYMPOSIUM IN THE FIELDS OF PULP, PAPER, PACKAGING AND GRAPHICS, Zlatibor, Serbia  
And Montenegro, 16 - 19 June 2015, pp.20-24
- XVIII. Surface Sizing Of Paper With Silica/Paraffin Mixture**  
ONDARAL M., USTA M., Kurtuluş O. Ç., ONDARAL S.  
20th INTERNATIONAL SYMPOSIUM IN THE FIELDS OF PULP, PAPER, PACKAGING AND GRAPHICS, Zlatibor, Serbia  
And Montenegro, 16 - 19 June 2015, pp.15-20
- XIX. Biopolyelectrolyte Complexes As A Paper Strength Additive**  
ONDARAL S., Ergün M. E., Hocaoglu G., Kurtuluş O. Ç., DEMİR C., USTA M.  
20th INTERNATIONAL SYMPOSIUM IN THE FIELDS OF PULP, PAPER, PACKAGING AND GRAPHICS, Zlatibor, Serbia  
And Montenegro, 16 - 19 June 2015, pp.30-35
- XX. Cationic And Anionic Nanofibrillated Celluloses For Papermaking**  
Hocaoglu G., ONDARAL S.  
FP1105 Workshop, Sen Sebastian, Spain, 26 - 27 May 2015
- XXI. Polyelectrolyte Complex And Layer By Layer Technique Of Starches**  
ONDARAL S., ERGÜN M. E., Hocaoglu G., ERSOY KALYONCU E.  
FP1105 Workshop, Sen Sebastian, 25 - 26 May 2015
- XXII. CATIONIC AND ANIONIC NANOFIBRILATED CELLULOSES FOR PAPERMAKING**  
ONDARAL S., hocaoglu g.  
COST1205, 10 - 11 March 2015
- XXIII. The use of biopolyelectrolyte complexes in papermaking**  
ONDARAL S., Ergün M. E., Hocaoglu G.  
7th International Symposium on ADVANCED TECHNOLOGIES FOR THE PULP, PAPER AND CORRUGATED BOARD  
INDUSTRY, Brasov, Romania, 3 - 06 September 2013, pp.10-15
- XXIV. Biopolymer complexes from chitosan and carboxymethyl cellulose**  
Ergün M. E., Hocaoglu G., DEMİR C., ONDARAL S.  
9th Nanoscience and Nanotechnology Conference, Erzurum, Turkey, 24 - 28 June 2013, pp.5-10
- XXV. Nanofibrillated cellulose production and modification**  
ONDARAL S., Hocaoglu G., Ergün M. E.  
9th Nanoscience and Nanotechnology Conference, Erzurum, Turkey, 24 - 28 June 2013, pp.24-28
- XXVI. Starch based biopolymer complexes as dry strength additive Comparison with biopolymer multilayer**  
Ergün M. E., Hocaoglu G., KURTULUŞ O. Ç., DEMİR C., ONDARAL S.  
APMAS 2013, Antalya, Turkey, 24 - 28 April 2013
- XXVII. Production of Anionic and Cationic Nanofibrillated celluloses: Adsorption Studies with Quartz Crystal Microbalance with Dissipation (QCM-D)**  
Hocaoglu G., Ergün M. E., ONDARAL S.  
3rd International Advances in Applied Physics and Materials Science Congress, Antalya, Turkey, 24 - 28 April 2013,  
pp.40-45
- XXVIII. Starch-based biopolymer complexes as dry strength additive**  
Ergün M. E., Hocaoglu G., Kurtuluş O. Ç., DEMİR C., ONDARAL S.  
3rd International Advances in Applied Physics and Materials Science Congress, Antalya, Turkey, 24 - 28 April 2013,  
pp.36-38
- XXIX. The Adsorption and Conformational Properties of Polyelectrolyte Complexes on the Oppositely Charged Surface**  
ONDARAL S., Ankerfors C., Wagberg L.  
6. Nanoscience and Nanotechnology Conference, İzmir, Turkey, 15 - 18 June 2010, pp.45-48
- XXX. Adsorption of xyloglucan on model cellulose surfaces: Influence of cellulose crystallinity and molecular mass of the XG**  
Wagberg L., ONDARAL S., Brumer H.  
239th ACS National Meeting, San Francisco, United States Of America, 21 - 25 March 2010, pp.60-65

- XXXI. **PLS kontrol Ünitesi İlaveli Presle Farklı Pres Şartları Altında Üretilen MDF'lerin Bazı Fiziksel ve Mekanik Özellikleri**  
BORAN S., USTA M., ONDARAL S.  
. Ulusal Batı Karadeniz Ormanlık Kongresi, Bartın, Turkey, 5 - 07 November 2009, pp.15-20
- XXXII. **M Adsorption of polyelectrolyte complexes to fibres and model surfaces and their influence on joint strength**  
Ankerfors C., ONDARAL S., Ödberg L., Wagberg L., Carlen J., Persson M.  
7TH INTERNATIONAL Paper and Coating Chemistry Symposium, Ontario, Belgium, 10 - 12 June 2009
- XXXIII. **Adsorption of polyelectrolyte complexes to fibres and model surfaces and their influence on joint strength**  
Ankerfors C., ONDARAL S., Ödberg L., Wagberg L., Carlen J., Persson M.  
7TH INTERNATIONAL Paper and Coating Chemistry Symposium, Hamilton, Canada, 10 - 12 June 2009, pp.55-60
- XXXIV. **The synthesis of water soluble cross-linked polymers by dispersion polymerization**  
ONDARAL S., USTA M., Gümüşderelioğlu M., Wagberg L.  
Nordic Polymer Days, Stockholm, Sweden, 11 - 13 May 2008, pp.45-50
- XXXV. **Rosin Sizing Under Neutral Papermaking Conditions**  
ONDARAL S., BORAN S., USTA M.  
1st International Non-wood Forest Products Symposium, Trabzon, Turkey, 1 - 04 November 2006, pp.10-15
- XXXVI. **Nötral Kağıt Üretiminde Kolofan Yapıştırması**  
ONDARAL S., BORAN S., USTA M.  
1st International Non-wood Forest Products Symposium, Trabzon, Turkey, 1 - 04 November 2006, pp.75-79
- XXXVII. **Adsorption of Well-Characterised polyDiAllylDiMethylAmmoniumChloride (DADMAC) onto SiO<sub>2</sub> Surfaces From Water**  
Wagberg L., Bo A., ENARSSON L., Larsson T., ONDARAL S.  
6th International Symposium on Polyelectrolytes, Dresden, Germany, 4 - 08 September 2006, pp.50-54
- XXXVIII. **The Fixation of Dissolved and Colloidal Substances on Fiber and Silicon Oxide Surfaces with Cross-Linked Poly(AM-co-DADMAC) Prepared by Dispersion Polymerization**  
ONDARAL S., USTA M., Gümüşderelioğlu M., Wagberg L.  
12th Meeting of the Pulp and Paper Industry of Southeast European countries, Brasov, Romania, 21 - 23 September 2005, pp.45-50
- XXXIX. **Renkli kağıt üretim prosesleri ve spektrofotometrik yöntemle kağıt renginin belirlenmesi**  
ONDARAL S., USTAÖMER D., Yel H.  
V.Ulusal Orman Fakülteleri Öğrenci Kongresi, Trabzon, Turkey, 29 April - 01 May 2004, pp.15-20
- XL. **A review of The Chemical Composition of Different Softwoods, Hardwoods and Agricultural Residues**  
SERİN Z., GÜMÜŞKAYA E., ONDARAL S.  
XXXI. International Forestry Students Symposium, İstanbul, Turkey, 1 - 15 October 2003, pp.348-359
- XLI. **The Effects of White-Water System Closure on Efficiency of Retention Systems**  
ONDARAL S., SERİN Z., GÜMÜŞKAYA E.  
XXXI. International Forestry Students Symposium, İstanbul, Turkey, 1 - 15 October 2003, pp.327-335
- XLII. **The Fine Structure of Cellulose in Hemp (Cannabis sativa L.) Bast Fibers During Organosolv Pulping**  
USTA M., GÜMÜŞKAYA E., SERİN Z., ONDARAL S.  
13th International Symposium on Cellulose Chemistry and Technology, Iasi, Romania, 3 - 05 September 2003, pp.124-130
- XLIII. **The Fine Structure of Cellulose in Hemp (Cannabis sativa L.) Bast Fibers During Organosolv Pulping**  
USTA M., GÜMÜŞKAYA E., Serin Z., ONDARAL S.  
13th International Symposium on Cellulose Chemistry and Technology, Iasi, Romania, 3 - 05 September 2003, pp.5-10
- XLIV. **The Effects of White-Water System Closure on The Efficiency of Retention Systems**  
ONDARAL S., Serin Z., GÜMÜŞKAYA E.  
International Forestry Students Symposium, İstanbul, Turkey, 1 - 15 September 2003, pp.20-25
- XLV. **The Effects of Various Stock Preparation Conditions on The Adsorption of Dye on Pulp Fiber**

ONDARAL S., ERTAŞ M., USTAÖMER D.

XXXI International Forestry Students Symposium, İstanbul, Turkey, 1 - 15 September 2003, pp.16-20

**XLVI. The Importance of Swelling for Papermaking**

USTAÖMER D., SERİN Z., ONDARAL S.

XXXI International Forestry Students Symposium, İstanbul, Turkey, 1 - 15 September 2003, pp.25-30

## Other Publications

- I. **Nanofibrillated Cellulose for Papermaking**  
Kurtuluş O. Ç., ONDARAL S., HOCAOĞLU G.  
Other, pp.10-15, 2015
- II. **Polyelectrolyte Complex And Layer By Layer Technique Of Starches**  
ONDARAL S., ERGÜN M. E., HOCAOĞLU G., ERSOY KALYONCU E.  
Presentation, pp.10-13, 2015
- III. **Cationic And Anionic Nanofibrillated Celluloses For Papermaking**  
HOCAOĞLU G., ONDARAL S.  
Presentation, pp.35-40, 2015
- IV. **Carboxymethylation as a Pretreatment of Nanofibrillated Cellulose**  
Kurtuluş O. Ç., ONDARAL S., HOCAOĞLU G.  
Presentation, pp.10-15, 2015
- V. **Cationic And Anionic Nanofibrillated Celluloses For Papermaking**  
ONDARAL S., HOCAOĞLU G.  
Presentation, pp.15-20, 2015

## Supported Projects

ONDARAL S., TUBITAK Project, Kağıt Sektörü İçin Aldehit Uç Gruplu Mukavemet Arttırıcı Polimerlerin Geliştirilmesi, 2017 - Continues

ONDARAL S., TUBITAK Project, • The use of ethyl acetate (CH<sub>3</sub>COOCH<sub>2</sub>CH<sub>3</sub>) and ethyl lactate (CH<sub>3</sub>CHOHCOOC<sub>2</sub>H<sub>5</sub>) with different catalysts in production of cellulose acetate, 2015 - 2017

ONDARAL S., TUBITAK Project, Sinerjik Etkili Alkil Ketendimer Dispersiyonlarının Yerli Yardımcı Kimyasal Maddeler İle Üretimi, 2014 - 2016

GÜMÜŞKAYA E., ONDARAL S., TUBITAK Project, Biyopolielektrolit Komplekslerin Üretimi: Adsorpsiyon Özelliklerinin ve Kağıt Üretiminde Bağlayıcı Olarak Performanslarının Araştırılması, 2011 - 2013

## Scientific Research / Working Group Memberships

COSTFP1105, EU Framework Programme, Switzerland, [http://www.cost.eu/COST\\_Actions/fps/Actions/FP1105](http://www.cost.eu/COST_Actions/fps/Actions/FP1105), 2012 - 2016

COSTFP1003, EU Framework Programme, Switzerland, <http://www.action-fp1003.eu/>, 2011 - 2015

## Metrics

Publication: 85

Citation (WoS): 242

Citation (Scopus): 259

H-Index (WoS): 8

H-Index (Scopus): 9



## **Non Academic Experience**

Ankutsan A.Ş.

Setaş Kimya A.Ş.

Viking Kağıt ve Selüloz A.Ş.

Royal Institute of Technology-Sweden

Royal Institute of Technology-Sweden