

## Assoc. Prof. Birgöl Benli

### Personal Information

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### Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Bölümü, Turkey 1994 - 2001

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

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1987 - 1991

### Dissertations

Doctorate, The Investigation of the Parameters Affecting the Shear Strength of Filter Cakes, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 2001

Postgraduate, The investigation of necessary conditions for the production of Pectin from the apple pumice wastes, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 1994

### Research Areas

Technical Sciences, Chemical Engineering and Technology, Chemical Technologies, Membrane Technology, Basic Operations and Thermodynamics, Separation Operations, Mechanical Physical Operations, Mining Engineering and Technology, Ore-Dressing, Refining and Purification, Dewatering, Chemical-Biological Winning Techniques and Mineral Processing, Metallurgical and Materials Engineering, Material science and engineering, Composites, Polymeric Materials, Nanomaterials, Basic Sciences, Chemistry, Physical Chemistry, Polymers and Their Applications, nanocomposites, Surface Chemistry

### Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Maden Fakültesi, Cevher Hazırlama Mühendisliği Bölümü, 2015 - Continues

Assistant Professor, Istanbul Technical University, Maden Fakültesi, Cevher Hazırlama Mühendisliği Bölümü, 2010 - 2015

Research Assistant PhD, Istanbul Technical University, Kimya- Metalurji Fakültesi, Kimya Mühendisliği, 2001 - 2010

Research Assistant, Istanbul Technical University, Kimya- Metalurji Fakültesi, Kimya Mühendisliği, 1992 - 2001

### Courses

Surfaces&Interfaces, Postgraduate, 2019 - 2020

Termodinamik, Undergraduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Thermodynamics, Undergraduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Bioengineering Thermodynamics, Undergraduate, 2016 - 2017

Fluid Mechanics, Undergraduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

REMEDIATION OF INDUSTRIAL AND MINERAL WASTES, Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017

Akışkanlar Mekaniği, Undergraduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Biotechnology in Mineral Processing, Undergraduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Metal Recovery Processes from Solutions, Doctorate, 2012 - 2013, 2015 - 2016

MANAGEMENT AND ECONOMY OF MINERAL PROCESSING PLANT, Undergraduate, 2014 - 2015, 2015 - 2016

Mining and Environment, Undergraduate, 2015 - 2016

Differential Equations, Undergraduate, 2010 - 2011, 2014 - 2015

Mühendislik Matematiği, Postgraduate, 2011 - 2012, 2013 - 2014, 2014 - 2015, 2015 - 2016

Fluid Mechanics, Undergraduate, 2013 - 2014

Metal Extraction Processes in Mineral Processing , Doctorate, 2011 - 2012

Diferansiyel Denklemler, Undergraduate, 2010 - 2011

Termodinamik, Undergraduate, 2010 - 2011

Differential Equations, Undergraduate, 2009 - 2010

## Designed Lessons

Benli B., Surfaces&Interfaces, Postgraduate, 2019 - 2020

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

- I. **The influence of silver and copper ions on the antibacterial activity and local electrical properties of single sepiolite fiber: A conductive atomic force microscopy (C-AFM) study**  
Benli B., Yalm C.  
APPLIED CLAY SCIENCE, vol.146, pp.449-456, 2017 (Journal Indexed in SCI)
- II. **Effects of humic acid release from sepiolite on the interfacial and rheological properties of alkaline dispersions**  
Benli B.  
APPLIED CLAY SCIENCE, vol.102, pp.1-7, 2014 (Journal Indexed in SCI)
- III. **Effect of borax addition on the structural modification of bentonite in biodegradable alginate-based biocomposites**  
Benli B.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.128, no.6, pp.4172-4180, 2013 (Journal Indexed in SCI)
- IV. **The anisotropic characteristics of natural fibrous sepiolite as revealed by contact angle, surface free energy, AFM and molecular dynamics simulation**  
Benli B., DU H., CELIK M. S.  
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.408, pp.22-31, 2012 (Journal Indexed in SCI)
- V. **Predicting the extent of hydrophilicity on Si nano-column surfaces**  
Can M. F. , Guvendik S., Benli B., Trabzon L., Kızıl H., Çelik M. S.  
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.43, pp.366-372, 2012 (Journal Indexed in SCI)
- VI. **Rheological, Electrokinetic, and Morphological Characterization of Alginate-Bentonite Biocomposites**  
Benli B., Boylu F., Can M. F. , Karakaş F., CINKU K., Ersever G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.122, no.1, pp.19-28, 2011 (Journal Indexed in SCI)
- VII. **Evaluation of Adhesion Forces in Alginate-Filler System Using an AFM Colloidal Probe Technique**  
Benli B., NALASKOWSKI J., ASSEMI S., Çelik M. S. , MILLER J. D.

- JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.25, no.11, pp.1159-1173, 2011 (Journal Indexed in SCI)
- VIII. **Determining the fiber size of nano structured sepiolite using Atomic Force Microscopy (AFM)**  
Can M., Cinar M., Benli B., OZDEMIR O., Çelik M. S.  
APPLIED CLAY SCIENCE, vol.47, pp.217-222, 2010 (Journal Indexed in SCI)
- IX. **Shear Strength Measurement of Mineral Filter Cakes**  
Benli B., Özcan Ö., SAYAN P.  
Fresenius Environmental Bulletin, vol.0, 2010 (Journal Indexed in SSCI)
- X. **Correlations between the shear strength of mineral filter cakes and particle size and surface tension**  
Ozcan O., GONUL B., BULUTCU A. N. , MANAV H.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.187, pp.405-413, 2001  
(Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Sürdürülebilir Kalkınmada Hammadde İhtiyacı için: Nanoteknoloji ve Cevher Hazırlama**  
Benli B., Arslan F.  
İTÜ Vakfı Dergisi, no.61, pp.22-24, 2013 (National Refreed University Journal)
- II. **Nanoteknoloji ve Antik Çağlara Uzanan Killi Nanoyapılar**  
Benli B.  
Kil Bilimi ve Teknolojisi Dergisi, vol.1, no.3, pp.143-162, 2008 (Other Refereed National Journals)

### Books & Book Chapters

- I. **Polymer nanocomposites symposium multi-scale self-healing nanocomposites shielding material abstract book**  
Baydoğan N. (Editor), Ürper O. (Editor), Köken N. (Editor), Benli B. (Editor), Canci Matur U. (Editor)  
istanbul teknik üniversitesi, İstanbul, 2018

### Refereed Congress / Symposium Publications in Proceedings

- I. **Color Image Processing Based On Intelligent Sorting Systems From Textile Wastes To Mineral Processing**  
BENLİ B., Gönül E., Ertürk Akgül G.  
IMPC-Eurasia International Mineral Processing Conference, 31 October - 02 November 2019
- II. **Recycling of Catalitic Convertor Wastes To Innovative Catalysis**  
Büke A., BENLİ B.  
IMPC-Eurasia International Mineral Processing Conference, 31 October - 02 November 2019
- III. **Improving The Value And Quality Of Natural Textiles Using Nanotechnology And Nanoparticles**  
Gönül E., Kuruçay N., BENLİ B.  
IMPC-Eurasia International Mineral Processing Conference, 31 October - 02 November 2019
- IV. **Investigation of Iron Oxide Nanopigments as Magnetic Coloring Dyes**  
Gönül E., BENLİ B.  
IMPC Eurasia Conference, 31 October - 02 November 2019
- V. **Silver Nanoparticle Synthesis And Uses In Sepiolite- Alginate Nanocomposites For Protective Coatings**  
karabacaoğlu b., BENLİ B.  
International Mineral Processing and Recycling, 8 - 10 May 2019
- VI. **Thermodynamic Approaches Of The Removal Of Cyanide From Water Solutions By Halloysite Clays**

- BENLİ B., yıldız m.  
International Mineral Processing and Recycling, 8 - 10 May 2019
- VII. **Box-Behnken Experimental Design for Microwave Energy Roasting of Refractory Gold Flotation Concentrate**  
BENLİ B., Adem A.  
International Mineral Processing and Recycling, 8 - 10 May 2019
- VIII. **Coloring Performance of Iron Oxide Nanopigments Obtained From a Synthetic Acid Mine Drainage**  
Gönül E., Mert A., BENLİ B.  
International Mineral Processing and Recycling, 8 - 10 May 2019
- IX. **ELECTRICAL PROPERTIES OF A SINGLE NANOFIBER OF SEPIOLITE CLAY BY ATOMIC FORCE MICROSCOPY CONDUCTIVITY MODE**  
BENLİ B.  
POLYMER NANOCOMPOSITE SYMPOSIUM, 21 - 22 February 2018
- X. **Nanokiller ve inorganik nanokatıkların doğal kaynaklardan eldesi ve hava filtrelerindeki rolü**  
BENLİ B.  
Hava Filtrasyonu ve Nanolif Teknolojileri Kongresi, Turkey, 14 November 2017
- XI. **Langmuir-Blodgett Metodu Kullanılarak Sepiyolit Fiberlerle Kaplanmış Doğal Biyopolimer Bazlı İnce Filmlerin Hazırlanması**  
Çetiner U., Benli B.  
Yer bilimlerinde Öğrenci Bitirme Tasarım ve Projeleri Sempozyumu Sergisi, İstanbul, Turkey, 14 June 2017, pp.1-4
- XII. **Madencilik Sularından Siyanür Gideriminde Membran Filtrasyonu Kullanımı**  
Yeşilsancak M., BENLİ B.  
Yer bilimlerinde Öğrenci Bitirme Tasarım ve Projeleri Sempozyumu Sergisi, Turkey, 14 June 2017
- XIII. **Siyanürlü Suların Geri Kazanımına Yönelik Adsorptif Özellikte Polisülfon-Kil İnce Film Membran Hazırlanması**  
BENLİ B., Yıldız M.  
Yer bilimlerinde Öğrenci Bitirme Tasarım ve Projeleri Sempozyumu Sergisi, Turkey, 14 June 2017
- XIV. **Sülfürlü Altın Flotasyonu Konsantrelerinin Ön İyileştirilmesinde Biyooksidasyon Yönteminin Kullanılabilirliğinin Araştırılması**  
Yaşar M., Baştürkcü H., BENLİ B.  
Yer bilimlerinde Öğrenci Bitirme Tasarım ve Projeleri Sempozyumu Sergisi, Turkey, 14 June 2017
- XV. **Doğal biyopolimer bazlı sepiyolit fiberlerle kaplanmış monomoleküler filmlerin akıllı nano ambalaj uygulaması**  
Çetiner U., Benli B.  
2. Uluslararası Lif ve Polimer Sempozyumu, Bursa, Turkey, 27 - 28 April 2017, pp.1-4
- XVI. **Investigation of natural sepiolite clay coated monomolecular films for smart packaging applications**  
BENLİ B., Çetiner U.  
II. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, 27 - 28 April 2017
- XVII. **Smart biocomposite films based on fibrous sepiolite clay and alginate biopolymer**  
BENLİ B.  
IX. International RD Brokerage Event, 27 - 28 April 2017
- XVIII. **Meyve Suyu Fabrika Atıklarından Temin Edilen Atık Elma Posalarından Mikrodalga Teknolojisi Kullanımıyla Pektin Üretimi**  
BENLİ B., İpekoğlu A. N.  
Gıda, Metabolizma & Sağlık: Biyoaktif Bileşenler ve Doğal Katkıları Kongresi, İstanbul, Turkey, 28 November 2016
- XIX. **Colloidal dispersions of nano fibrous sepiolite and their use in polysulfone PS membrane Physical properties and filtration performances**  
BENLİ B., PAŞAOĞLU M. E., GÜÇLÜ S., KOYUNCU İ.  
XVth International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016
- XX. **Selective Precipitation of Iron From Zinc Bearing Leach Liquor**  
BENLİ B., PEREK K. T., ARSLAN F.

XVth International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016

- XXI. **Nanostructured Sepiolite Conductive Films with Copper and Silver Ions: Electrostatic Force Microscopy (EFM) study**  
BENLİ B., Yalın C.  
XVth International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016
- XXII. **Degradation of Azo Dyes with Sepiolite Added Alginate Biocomposite Gel Beads**  
Dal C., Fındıklı S., BENLİ B.  
XVth International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016
- XXIII. **Extraction of Nickel from Iron and Cobalt Bearing Sulfate Solutions by Solvent Extraction**  
Güven Z., YENİAL Ü., BENLİ B., ARSLAN F.  
SWEMP 2016-16th International Symposium On Environmental Issues and Waste Management in Energy and Mineral Production, İstanbul, Turkey, 5 - 07 October 2016
- XXIV. **ENHANCED ARSENIC REMOVAL FROM DRINKING WATER BY IRON-MODIFIED CA-SILICATE AS SUSTAINABLE AND RENEWABLE ADSORBENT FROM RICE HULL**  
Benli B., Erdoğan A., Şenol Ç., Gökçeli G., Özcan Taşpınar Ö.  
5th Mediterranean Clay Meeting, İzmir, Turkey, 25 - 29 September 2016, pp.71
- XXV. **The effect of MgO functional modifications on the polysulfone composites blended with nanostructured sepiolite for the applications of thin film composite membranes**  
BENLİ B., Ergün E. B. , Numanoğlu E.  
5th Mediterranean Clay Meeting, İzmir, Turkey, 25 - 29 September 2016
- XXVI. **Enhanced Arsenic Removal from Drinking Water by Iron Modified Ca Silicate as Sustainable and Renewable Adsorbent from Rice Hull**  
BENLİ B., Özcan Ö., Erdoğan A., Şenol C., Gökçeli G.  
5th Mediterranean Clay Meeting, İzmir, Turkey, 25 - 29 September 2016
- XXVII. **Preparation of Polysulfone Modified Fiber Structure Sepiolite Hybrid Particles for Ultrafiltration Membrane**  
Hanbeyoğlu B., KIZILCAN N., BENLİ B.  
World Polymer Congress, İstanbul, Turkey, 17 - 21 July 2016
- XXVIII. **Microbial Benefication of Complex Sulphidic Pb-Zn Ores**  
Saraçoğlu İ., Benli B.  
University and Industry Cooperation Symposium on Earth Sciences and Undergraduate Research Projects Exhibition, İstanbul, Turkey, 10 June 2016, pp.1
- XXIX. **A mineralogical approach on refractory gold ore processing**  
BENLİ B., Özsoy Y., ÇİFTÇİ E., ARSLAN F.  
12th International Congress for Applied Mineralogy, 10 - 12 August 2015
- XXX. **Application of Biooxidation prior to Cyanidation Case Study Turkish Sulfidic Gold Bearing Ores**  
özsoy y., BENLİ B., ÇİFTÇİ E., ARSLAN F.  
Proceedings of XVI Balkan Mineral Processing Congress, 17 - 19 June 2015
- XXXI. **Kompleks Sülfürlü Pb Zn Cevherinin Bakteriyel Proseslerle Zenginleştirilmesi**  
Saraçoğlu İ., BENLİ B.  
YER2015- Yer Bilimlerinde Üniversite ve Sanayi İşbirliği Sempozyumu ve Öğrenci Bitirme Tasarım Projeleri Sergisi, Turkey, 10 June 2015
- XXXII. **Converting Waste to Energy**  
BENLİ B., BURAT F., ARSLAN F.  
INERMA, International Energy Raw Materials & Energy Summit, 1 - 03 November 2015
- XXXIII. **In Situ Polymerization of Sepiolite Modified Polysulfone**  
Yavas B. H. , Tanrıver N., Benli B., Kızılcan N.  
World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 28 - 30 May 2015, pp.2206-2209
- XXXIV. **Nanocomposite Production from Fiber Structure Sepiolite and Polysulfone**  
Tanrıver N., Erkman E., Kızılcan N., Benli B., Özsoy Y.

International Symposium on Polymer Analysis and Characterization, Les Diablerets, Switzerland, 16 - 18 June 2014, pp.1-3

- XXXV. **Antibacterial Nanofibre Production From Fiber Structure Sepiolite**  
Yalın C., Benli B.  
Balkan Mineral Processing Congress, Sozopol, Bulgaria, 12 - 16 June 2013, pp.1-5
- XXXVI. **Recovery Of Fine Abrasive Garnet From The Restoration Of Historical Buildings Wastes**  
Coşkun N., Aydın B., Güven O., Eriş İ., Benli B.  
Balkan Mineral Processing Congress, Sozopol, Bulgaria, 12 - 16 June 2013, pp.1-5
- XXXVII. **The Changes of the Shear Strength of Mineral Filter Cakes with the Saturation Degree, Compression Pressure and Surface Active Agen**  
Benli B., Özcan Ö.  
Appropriate Environmental and Solid Waste Management and Technologies for Developing Countries,, İstanbul, Turkey, 8 - 12 June 2012, pp.1471-1477
- XXXVIII. **Effect of Surfactants and Borax on the Specific Cake Resistance and Filtration Rate of Industrial Minerals**  
Benli B., Çalışkan E., Özcan Ö.  
World Filtration Congress, Graz, Austria, 16 - 20 March 2012, pp.1-5
- XXXIX. **Enhancement of fiber structured sepiolite clay by gravity separation**  
Yalın C., Özer M., Benli B.  
World Filtration Congress, Graz, Austria, 16 March - 20 February 2012, pp.1-4
- XL. **Novel Potential of Nanoclay and Nanoclay Based Electrodes**  
Benli B., Yalın C.  
Electrochemical Horizons, Bath, United Kingdom, 5 - 08 September 2011, pp.1
- XLI. **Influence of filler modification on the wettability and adhesion of fiber sepiolite-epoxy nanocomposite surfaces**  
Benli B., Can M. F. , Çelik M. S.  
Balkan Mineral Processing Congress, Tuzla, Bosnia And Herzegovina, 14 - 16 June 2011, pp.1-5
- XLII. **Recovery of zinc from lead-zinc flotation tailings by leaching and precipitation**  
Perek K. T. , Benli B., Arslan F.  
Balkan Mineral Processing Congress, Tuzla, Bosnia And Herzegovina, 14 - 16 June 2011, pp.1-5
- XLIII. **The Usage of Bentonite-type Clays as Thickener in Textile Printing**  
Hojiyev R., Boylu F., Kanık M., Benli B., ERSEVER G., Çelik M. S. , Ulcay Y.  
Uluslararası Ar-ge proje pazarı, Bursa, Turkey, 10 - 11 February 2011, pp.1-5
- XLIV. **Treatment of Sepiolite for Improving Polyuretane Nanocomposite Electrospun Fibers**  
Benli B., Hojiyev R., Gümüş T., Ulcay Y., Demir A., Çelik M. S.  
The Fiber Society Spring 2010 International Conference, Bursa, Turkey, 10 - 12 May 2010, pp.1-5
- XLV. **Improvement of High Performanced Clays for Textile Industry**  
Hojiyev R., Benli B., Boylu F., Ersever G., Ulcay Y., Çelik M. S.  
Uluslararası Ar-ge proje pazarı, Bursa, Turkey, 18 February 2010, pp.179-180
- XLVI. **Enhancement of Sepiolite for the production of electrospun nanofibers by electrospinning technique**  
Benli B., Can M. F. , Gümüş T., Hojiyev R., Boylu F., Demir A., Çelik M. S.  
Uluslararası Ar-ge proje pazarı, Bursa, Turkey, 18 February 2010, pp.5-7
- XLVII. **The use of Clays as Thickener in Textile Printing**  
Ersever G., Boylu F., Benli B., Çelik M. S. , Hojiyev R., Kanık M., Ulcay Y.  
Uluslararası Ar-ge proje pazarı, Bursa, Turkey, 18 February 2010, pp.181-182
- XLVIII. **Electrokinetic and Rheological Properties of Bentonite Added Alginate Biodegradable Composites**  
Benli B., Boylu F., Selamet A., Çelik M. S.  
Ulusal Kil Sempozyumu, Trabzon, Turkey, 1 - 03 November 2009, pp.567-575
- XLIX. **Electrospinning of Polyurethane/ Modified Sepiolite Nanocomposites**  
Benli B., Can M. F. , Oruç F., Demir A., Çelik M. S.  
Nanotechnology Conference and Exhibition, Berlin, Germany, 28 - 30 September 2009, pp.1

- L. **Wettability of Hydrophilic Nanostructured Surfaces**  
Benli B., Güvendik S., Can M. F., Trabzon L., Kazmanlı M. K., Kızıl H., Çelik M. S.  
Nanotechnology Conference and Exhibition, Berlin, Germany, 28 - 30 September 2009, pp.1-5
- LI. **Advantages and Limitations of Various Imaging Techniques for Organic and Inorganic Fibers**  
Benli B., Can M. F., Oruç F., Demir A., Çelik M. S.  
Nanotechnology Conference and Exhibition, Berlin, Germany, 10 - 13 August 2009, pp.22
- LII. **Improving the Compatibility of Fibrous Nanoclays in Nanocomposites**  
Benli B., Can F., Çelik M. S.  
Ulusal Nanobilim ve Nanoteknoloji Konferansı, Eskişehir, Turkey, 8 - 12 June 2009, pp.375
- LIII. **The Production of Industrial Products from Turkish Bentonites**  
Boylu F., CINKU K., Bulut G., Benli B., Çetinel T., Can M. F., Karakaş F., Sirkeci A. A., Gül A., Ateşok H., et al.  
Uluslararası Endüstriyel Hammaddeler Sempozyumu, İzmir, Turkey, 25 - 27 February 2009, pp.37-53
- LIV. **Nanotechnological Studies in Mineral Processing Department: Surface and Colloid Chemistry Research Group**  
Çelik M. S., Benli B., Boylu F., Can M. F., KARAKAS F., Güven O.  
İTÜ Nano-Bilim ve Nano-Teknoloji Çalıştayı, İstanbul, Turkey, 12 - 13 February 2009, pp.3
- LV. **Investigation of Alginate- Clay Nanobiocomposite Interactions by Atomic Force Microscopy Colloidal Probe Technique**  
Benli B., Nalaskowski J., Çelik M. S., Miller J. D.  
İTÜ Nano-Bilim ve Nano-Teknoloji Çalıştayı, İstanbul, Turkey, 12 - 13 February 2009, pp.44
- LVI. **Surface Characterization of Selected Mineral Fillers Using Atomic Force Microscopy**  
Benli B., Nalaskowski J., Çelik M. S., Miller J. D.  
International Mineral Processing Symposium, Antalya, Turkey, 21 - 23 October 2008, pp.1167-1175
- LVII. **Preparation and Chromium (VI) Adsorption Ability of Ca-Hydrogel Biocomposite Beads**  
Benli B., İpekoğlu N.  
International Conference on Bioengineering and Nanotechnology, Dublin, Ireland, 22 - 24 July 2008, pp.51
- LVIII. **Rheological Properties and Characterization of Alginate/Bentonite Biocomposite Systems**  
Benli B., Çelik M. S.  
American Institute of Chemical Engineering Conference, Salt Lake City, United States Of America, 4 - 09 November 2007, pp.1-10
- LIX. **The Effect of Impurities on Borax Decahydrate Crystallization in MSMR Crystallizer**  
Benli B., Bulutcu A. N.  
American Institute of Chemical Engineering Conference, Salt Lake City, United States Of America, 4 - 09 November 2007, pp.1-10
- LX. **Reusage of Waste Foundry Sands in the Production of Impermeable Barriers” Atık Döküm Kumunun Geçirimsiz Perde Yapımında Tekrar Kullanımı**  
Solmaz P., Benli B., Lav M. A., Çelik M. S., Lav A. H.  
Çevre ve Döküm Sempozyumu, İstanbul, Turkey, 24 - 26 October 2007, pp.91-101
- LXI. **Measurement of Interaction Forces and Adhesion Between Biodegradable Alginate Surfaces Using Atomic Force Microscopy**  
Benli B., Nalaskowski J., Miller J. D.  
Utah’ s Statewide Nanotechnology Conference, Utah, United States Of America, 26 October 2007, pp.10
- LXII. **The Relations For Cation Exchange Capacity, Physical and Mechanical Properties of Bentonites in Soil Mechanics Applications**  
Benli B., Demirer N., Konukçu E., Tunçan A., Çelik M. S.  
Ulusal Kil Sempozyumu, Kütahya, Turkey, 1 - 03 October 2007, pp.488-499
- LXIII. **Reverse Flotation of Trona Gangs of Kazan Deposit in Turkey**  
Görke G., Benli B., Özcan Ö.  
International Mineral Processing Symposium, İstanbul, Turkey, 3 - 08 September 2006, pp.620-624
- LXIV. **Influence of Particle Size on the Shear Strength of Mineral Filter Cakes**  
Benli B., Özcan Ö.

- International Mineral Processing Symposium, İstanbul, Turkey, 3 September - 08 March 2006, pp.196-200
- LXV. **The Relation between the Surfactant Concentration and the Surface Charge of Clay Minerals in Pressure Filtration**  
Benli B., Özcan Ö.  
American Filtration and Separation Society Annual conference, Atlanta, United States Of America, 9 - 12 April 2005, pp.1-5
- LXVI. **Effect Of Sodium Carbonate In Flotation Of Sodium Bicarbonate With DAH And SDS Collectors**  
Özcan Ö., Benli B., Nickolov Z.  
International Mineral Processing Symposium, İzmir, Turkey, 15 - 17 September 2004, pp.427-431
- LXVII. **Filtration Behavior of Surfactant Added Slurry in the Presence of Flocculants**  
Özcan Ö., Benli B.  
Ulusal Kimya Kongresi, Kars, Turkey, 5 - 09 July 2004, pp.663
- LXVIII. **The Investigation of The Effect of Surface Active Agent Type And Concentration On The Shear Strength Of Filter Cakes**  
Benli B., Özcan Ö.  
International Mineral Processing Symposium, Nevşehir, Turkey, 18 - 20 September 2002, pp.96-97
- LXIX. **The Effect of Particle Shape on the Filtration Rate and Shear Strength of quartz and dolomite mineral filter cakes**  
Benli B., Özcan Ö.  
International Symposium on the Characterization of Porous Solids, Alicante, Spain, 8 - 11 May 2002, pp.315-322
- LXX. **Filtration behaviour of fine grained calcite, dolomite, kaolin and quartz minerals in the presence and absence of the surfactants**  
Benli B., Özcan Ö.  
International Mineral Processing Symposium, Antalya, Turkey, 16 - 18 October 2000, pp.586-588
- LXXI. **The Changes of the Shear Strength of Mineral Filter Cakes with the Amount of Surface Active Agent**  
Benli B., Özcan Ö., Bulutcu A. N.  
Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 4 - 07 September 2000, pp.3
- LXXII. **The Usage of Surface Active Agents on Clay Filtration**  
Benli B., Özcan Ö.  
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