

## Prof. Fatih ÇAKAR

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizikokimya, Turkey 2005 - 2011

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizikokimya, Turkey 2002 - 2005

Undergraduate, Uludağ Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Turkey 1997 - 2002

### Dissertations

Doctorate, Çeşitli polimer-polimer karışımlarının ters gaz kromatografi, viskozite ve iletkenlik metodlarıyla karakterizasyonu, Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2011

Postgraduate, Poli (eter imid)'in termodinamik etkileşimlerinin ve ikinci dereceden geçişlerinin ters gaz kromatografisi metodu ile belirlenmesi ve poli (eter imid)'in elektrik iletkenliğinin incelenmesi, Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2005

### Research Areas

Chemistry, Physical Chemistry, Characterization of Polymers, Natural Sciences

### Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2022 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2017 - 2022

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2012 - 2017

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2006 - 2012

### Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, 2016 - 2020

Yıldız Teknik Üniversitesi, Rectorate, Farabi, 2013 - 2017

Yıldız Teknik Üniversitesi, Rectorate, Öyp, 2013 - 2017

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

- I. **Thermodynamic and surface properties of 4-(Undecyloxy) benzoic acid thermotropic liquid crystal by inverse gas chromatography at infinite dilution**  
Ozcan S., Tas S., IŞIK B., ÇAKAR F., CANKURTARAN Ö.  
Phase Transitions, 2025 (SCI-Expanded)
- II. **Valorization of the performance of novel and natural sodium alginate/pectin/Portulaca oleracea L. ternary composites in the adsorption of toxic methylene blue dye from the aquatic environment**  
Sariöz N., Işık B., Çakar F., Cankurtaran Ö.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.282, no.Part 3, pp.1-16, 2024 (SCI-Expanded)
- III. **Adsorptive removal of toxic crystal violet dye from aqueous solutions using buckwheat/Fe3O4 composites**  
Gazdağlı İ., Işık B., Çakar F., Cankurtaran Ö.  
BIOMASS CONVERSION AND BIOREFINERY, vol.1, no.1, pp.1-21, 2024 (SCI-Expanded)
- IV. **A comparative study on the adsorption of toxic cationic dyes by Judas tree (Cercis siliquastrum) seeds**  
IŞIK B., UĞRAŞKAN V., ÇAKAR F., YAZICI Ö.  
BIOMASS CONVERSION AND BIOREFINERY, vol.14, no.5, pp.6709-6723, 2024 (SCI-Expanded)
- V. **Thermodynamic Characterization of Polyetherimide/Single-Walled Carbon Nanotube Composites**  
Işık B., Uğraşkan V., Yazıcı Ö., Çakar F.  
Journal of Chromatographic Science, vol.62, no.1, pp.1-7, 2024 (SCI-Expanded)
- VI. **Effective and fast removal of crystal violet dye from aqueous solutions using Rumex acetosella: isotherm, kinetic, thermodynamic studies, and statistical analysis**  
Erdogan Y., IŞIK B., UĞRAŞKAN V., ÇAKAR F.  
BIOMASS CONVERSION AND BIOREFINERY, vol.14, no.1, pp.663-678, 2024 (SCI-Expanded)
- VII. **Thermotropic liquid crystalline 4-(Nonyloxy) benzoic acid: Phase transition temperatures, thermodynamic characterization, and separation of structural isomers**  
IŞIK B., ÇAKAR F., CANKURTARAN H., CANKURTARAN Ö.  
Korean Journal of Chemical Engineering, vol.40, no.11, pp.2724-2734, 2023 (SCI-Expanded)
- VIII. **High-performing natural materials (Leonurus cardiaca): dye biosorption studies and statistical analysis**  
Akdemir M., IŞIK B., ÇAKAR F., CANKURTARAN Ö.  
Biomass Conversion and Biorefinery, vol.13, no.15, pp.14281-14299, 2023 (SCI-Expanded)
- IX. **Mechanism and adsorptive performance of PANI/PTh copolymer as a novel and highly efficient adsorbent for the elimination of textile pollutants from aqueous solutions**  
Karadeniz S. C., UĞRAŞKAN V., IŞIK B., ÇAKAR F.  
Colloid and Polymer Science, vol.301, no.10, pp.1209-1229, 2023 (SCI-Expanded)
- X. **Adsorptive removal of Safranine T dye from aqueous solutions using sodium alginate–Festuca arundinacea seeds bio–composite microbeads**  
Karadeniz S. C., IŞIK B., UĞRAŞKAN V., ÇAKAR F.  
International Journal of Biological Macromolecules, vol.248, 2023 (SCI-Expanded)
- XI. **Valorization of Urtica dioica roots as a highly-effective and eco-friendly biosorbent for adsorptive removal of hazardous textile dyes**  
IŞIK B., ÇAKAR F., CANKURTARAN Ö.  
Materials Science and Engineering: B, vol.293, 2023 (SCI-Expanded)
- XII. **Agricultural Lolium perenne seeds as a low-cost biosorbent for Safranine T adsorption from wastewater: Isotherm, kinetic, and thermodynamic studies**  
Karadeniz S. C., IŞIK B., UĞRAŞKAN V., ÇAKAR F.  
Physics and Chemistry of the Earth, vol.129, 2023 (SCI-Expanded)
- XIII. **Adsorptive removal of hazardous dye (crystal violet) using bay leaves (Laurus nobilis L.): surface characterization, batch adsorption studies, and statistical analysis**

IŞIK B., AVCI S., ÇAKAR F., CANKURTARAN Ö.

Environmental Science and Pollution Research, vol.30, no.1, pp.1333-1356, 2023 (SCI-Expanded)

- XIV. **Determination of thermodynamic properties and phase transition temperatures of phenylbenzoate-based calamitic liquid crystals by inverse gas chromatography method**  
Çakar A., ÇAKAR F., OCAK H., Karavelioglu S., BİLGİN ERAN B., CANKURTARAN Ö.  
Phase Transitions, vol.96, no.11-12, pp.731-745, 2023 (SCI-Expanded)
- XV. **Investigation of the Surface Properties of Hexagonal Boron Nitride and Boron Phosphate by Inverse Gas Chromatography at Infinite Dilution**  
Işık B., Uğraşkan V., Çakar F., Yazıcı Ö.  
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.61, pp.7-14, 2022 (SCI-Expanded)
- XVI. **Adsorptive removal of crystal violet from wastewater using sodium alginate-gelatin-montmorillonite ternary composite microbeads**  
Akin K., UĞRAŞKAN V., IŞIK B., ÇAKAR F.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.223, pp.543-554, 2022 (SCI-Expanded)
- XVII. **Comparison of the adsorption efficiency of cationic (Crystal Violet) and anionic (Congo Red) dyes on Valeriana officinalis roots: Isotherms, kinetics, thermodynamic studies, and error functions**  
Akdemir M., IŞIK B., ÇAKAR F., CANKURTARAN Ö.  
Materials Chemistry and Physics, vol.291, 2022 (SCI-Expanded)
- XVIII. **The study on cholesteryl chloroformate liquid crystal for separation of isomers and determination of its surface properties**  
IŞIK B., ÇAKAR F., CANKURTARAN Ö.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.57, no.17, pp.2843-2851, 2022 (SCI-Expanded)
- XIX. **Determination of the surface thermodynamic characteristics and the structural isomer separation ability of new synthesized phenylbenzoate-based three-ring calamitic liquid crystals by inverse gas chromatography**  
Çakar A., ÇAKAR F., OCAK H., Karavelioglu S., BİLGİN ERAN B., CANKURTARAN Ö.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1265, 2022 (SCI-Expanded)
- XX. **Synthesis of boron carbon nitride layers for the adsorption of hazardous basic dye from aqueous solutions**  
IŞIK B., UĞRAŞKAN V., ÇAKAR F., YAZICI Ö.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.48, no.10, pp.4249-4268, 2022 (SCI-Expanded)
- XXI. **A comparative study of surface properties of Urtica dioica (nettle) leaves, roots, and seeds and examination of their ability to separate xylene isomers**  
IŞIK B., ÇAKAR F., CANKURTARAN Ö.  
Phytochemical Analysis, vol.33, no.6, pp.886-894, 2022 (SCI-Expanded)
- XXII. **Investigation of thermodynamic properties of Amine Modified Polystyrene and its use for separation of isomers**  
Adıgüzel A. Ç., Korkmaz B., ÇAKAR F., CANKURTARAN Ö., Şenkal B. F.  
Fluid Phase Equilibria, vol.559, 2022 (SCI-Expanded)
- XXIII. **Comparative physicochemical characterization of ULTEM/SWCNT nanocomposites: Surface, thermal and electrical conductivity analyses**  
UĞRAŞKAN V., IŞIK B., YAZICI Ö., ÇAKAR F.  
Journal of Polymer Research, vol.29, no.7, 2022 (SCI-Expanded)
- XXIV. **Removal of Safranin T by a highly efficient adsorbent (Cotinus Coggyria leaves): Isotherms, kinetics, thermodynamics, and surface properties**  
UĞRAŞKAN V., IŞIK B., YAZICI Ö., ÇAKAR F.  
Surfaces and Interfaces, vol.28, 2022 (SCI-Expanded)
- XXV. **Surface characterization and synthesis of boron carbide and silicon carbide**  
Uğraşkan V., Işık B., Yazıcı Ö., Çakar F.  
SOLID STATE SCIENCES, vol.118, 2021 (SCI-Expanded)
- XXVI. **Liquid Crystal Entrapped Porous Films for Ammonia Sensing and Determination of Surface**

### **Properties of Liquid Crystal Molecule**

IŞIK B., ÇAKAR F., CANKURTARAN Ö., CANKURTARAN H.  
CHEMISTRYSELECT, vol.6, no.26, pp.6740-6747, 2021 (SCI-Expanded)

- XXVII. **Studies on Miscibility of a Copolyester of Bisphenol-A with Terephthalic and Isophthalic Acids and Poly(methyl methacrylate) Blends in Dilute Solution**  
IŞIK B., ÇAKAR F., CANKURTARAN Ö.  
POLYMER SCIENCE SERIES A, vol.63, no.4, pp.429-434, 2021 (SCI-Expanded)
- XXVIII. **Thermodynamic and separation properties of 4-(octyloxy) benzoic acid liquid crystals by inverse gas chromatography (IGC)**  
Işık B., Çakar F., Cankurtaran H., Cankurtaran Ö.  
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.50, no.1, pp.1-15, 2021 (SCI-Expanded)
- XXIX. **Investigation of the surface properties of dibutyl amine modified poly(styrene) based polymer by inverse gas chromatography method**  
Adiguzel A. C., Korkmaz B., Çakar F., Cankurtaran O., Senkal B. F.  
JOURNAL OF POLYMER RESEARCH, vol.28, no.3, 2021 (SCI-Expanded)
- XXX. **Synthesis and thermodynamic characterization of poly(methyl methacrylate)/multiwall carbon nanotube nanocomposite**  
Çakar F.  
Surface and Interface Analysis, vol.53, pp.258-267, 2021 (SCI-Expanded)
- XXXI. **Evaluation of the surface properties of 4-(Decyloxy) benzoic acid liquid crystal and its use in structural isomer separation**  
IŞIK B., ÇAKAR F., CANKURTARAN H., CANKURTARAN Ö.  
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.3, pp.845-857, 2021 (SCI-Expanded)
- XXXII. **Synthesis and characterization of novel 4-benzyloxyphenyl 4-[4-(n-dodecyloxy) benzoyloxy]benzoate liquid crystal**  
Balkanli E., ÇAKAR F., OCAK H., CANKURTARAN Ö., BİLGİN ERAN B.  
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.1, pp.71-85, 2021 (SCI-Expanded)
- XXXIII. **Application of inverse gas chromatography in the surface characterization of diethanol amine modified polystyrene based polymer**  
ADIGUZEL A. C., Korkmaz B., ÇAKAR F., Şenkal B. F., CANKURTARAN Ö.  
Turkish Journal of Chemistry, vol.45, no.5, pp.1533-1542, 2021 (SCI-Expanded)
- XXXIV. **Thermodynamic Characterization of Sodium Alginate by Inverse Gas Chromatography**  
Uğraşkan V., Işık B., Yazıcı Ö., Çakar F.  
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.65, no.4, pp.1795-1801, 2020 (SCI-Expanded)
- XXXV. **Synthesis and liquid crystalline properties of new triazine-based pi-conjugated macromolecules with chiral side groups**  
Akkurt N., Al-Jumaili M. H. A., Ocak H., Çakar F., Torun L.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, pp.726-746, 2020 (SCI-Expanded)
- XXXVI. **Thermodynamic Characterization of Surface and Solubility of 5-((S)-3,7-Dimethyloctyloxy)-2-[[[4-(octyloxy)phenyl]imino]methyl]phenol Liquid Crystal with Some Solvents**  
Yanic S. M., ÇAKAR F., OCAK H., KARAMAN F., CANKURTARAN Ö., Eran B.  
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.64, no.3, pp.1007-1013, 2019 (SCI-Expanded)
- XXXVII. **DETERMINATION OF GLASS TRANSITION TEMPERATURE AND SURFACE PROPERTIES OF NOVEL CHALCONE MODIFIED POLY (STYRENE) BASED POLYMER**  
Adiguzel A. C., ÇAKAR F., Şenkal B. F., CANKURTARAN Ö., Hepuzer Gursel Y., KARAMAN F.  
THERMAL SCIENCE, vol.23, 2019 (SCI-Expanded)
- XXXVIII. **Investigation of thermodynamic properties of 4-decyloxybiphenyl-4 '-carboxylic acid liquid crystal and preparation of polymer dispersed liquid crystal composite**  
Öztürk E., Ocak H., Çakar F., Karanlık G., Cankurtaran Ö., Bilgin-Eran B.  
JOURNAL OF MOLECULAR LIQUIDS, vol.265, pp.24-30, 2018 (SCI-Expanded)
- XXXIX. **Surface and Thermodynamic Characterizations and Secondary Transition of Novel Phthalocyanine**

## Glass

Korkut S., Yazıcı Ö., Çakar F.

JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.63, no.5, pp.1146-1153, 2018 (SCI-Expanded)

- XL. **Miscibility in mixtures of liquid crystal 4-[4-(tetradecyloxy)benzoyloxy] benzoic acid and poly(ether imide)**  
ÇAKAR F., OCAK H., Bilgin-Eran B., OZKAL S., CANKURTARAN Ö., KARAMAN F.  
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.656, no.1, pp.66-73, 2017 (SCI-Expanded)
- XLII. **Morphology and preparation of polymer dispersed liquid crystals by solvent-induced phase separation method**  
Yanic S. M., OCAK H., ÇAKAR F., Bilgin-Eran B., GUZELLER D., CANKURTARAN Ö.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.11, pp.77-81, 2017 (SCI-Expanded)
- XLIII. **A study of the thermodynamical interactions with solvents and surface characterisation of liquid crystalline 5-((S)-3,7-dimethyloctyloxy)-2-[[[4-(dodecyloxy)phenyl]imino]-methyl]phenol by inverse gas chromatography**  
OCAK H., Mutlu-Yanic S., ÇAKAR F., Bilgin-Eran B., GUZELLER D., KARAMAN F., CANKURTARAN Ö.  
JOURNAL OF MOLECULAR LIQUIDS, vol.223, pp.861-867, 2016 (SCI-Expanded)
- XLIV. **Miscibility studies on a poly (ether imide) and poly (methyl methacrylate) blends**  
Çakar F., Yazıcı Ö., Adlı E.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.10, pp.578-582, 2016 (SCI-Expanded)
- XLV. **A study of dendritic ionic liquid crystals: Using (S)-4-citronellyloxybenzoic acid and polypropylene imine dendrimers**  
TURKCU H. N., OCAK H., GURBUZ M. U., ÇAKAR F., Bilgin-Eran B., TULÜ M.  
JOURNAL OF MOLECULAR LIQUIDS, vol.216, pp.209-215, 2016 (SCI-Expanded)
- XLVI. **A study on miscibility of polysulfone and polydimethylsiloxane mixtures by viscometry**  
Kaya M. A., Çakar F., Cankurtaran Ö., Karaman F.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.10, pp.240-244, 2016 (SCI-Expanded)
- XLVII. **Thermodynamic and surface characterisation of 4-[4-((S)-citronellyloxy) benzoyloxy] benzoic acid thermotropic liquid crystal**  
EROL I., ÇAKAR F., OCAK H., CANKURTARAN H., CANKURTARAN Ö., Bilgin-Eran B., KARAMAN F.  
LIQUID CRYSTALS, vol.43, no.1, pp.142-151, 2016 (SCI-Expanded)
- XLVIII. **Thermodynamical characterization of poly (ethylene glycol) and tosylate functionalized poly(ethylene glycol) interaction with some nonpolar and polar solvents via inverse gas chromatography**  
Sesigür F., Dasdan D., Yazıcı Ö., Çakar F., Cankurtaran Ö., Karaman F.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.10, pp.97-101, 2016 (SCI-Expanded)
- XLIX. **Synthesis, Preparation, and Characterization of Liquid Crystal/Organo-Montmorillonite Nanocomposites**  
YANIC S. M., GUZELLER D., OCAK H., ÇAKAR F., EROL I., CANKURTARAN Ö., Eran B. B.  
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.607, no.1, pp.23-31, 2015 (SCI-Expanded)
- L. **Investigation of thermodynamic and surface characterisation of 4-[4-(2-ethylhexyloxy)benzoyloxy] benzoic acid thermotropic liquid crystal by inverse gas chromatography**  
ÇAKAR F., OCAK H., ÖZTÜRK E., MUTLU-YANIC S., Kaya D., SAN N., CANKURTARAN Ö., Bilgin-Eran B., KARAMAN F.  
LIQUID CRYSTALS, vol.41, no.9, pp.1323-1331, 2014 (SCI-Expanded)
- L. **Dispersive Surface Energy and Acid-Base Parameters of Tosylate Functionalized Poly(ethylene glycol) via Inverse Gas Chromatography**  
sesigür F., SAKAR D., YAZICI Ö., ÇAKAR F., CANKURTARAN Ö., KARAMAN F.  
JOURNAL OF CHEMISTRY, vol.2014, 2014 (SCI-Expanded)

- LI. **Compatibility studies of poly(ether imide) with liquid crystal mixtures**  
 ÇAKAR F., OCAK H., Bilgin-Eran B., CANKURTARAN Ö., KARAMAN F.  
 OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.7, pp.667-671, 2013 (SCI-Expanded)
- LII. **Synthesis and Surface Characterizations of New Banana-Shaped Liquid Crystal 4-Bromo-1,3-phenylene-bis[4-[4'-(10-undecenyloxy)-benzoyloxy]]benzoate**  
 YORUR-GORECI C., ÇAKAR F., GULTEKIN M., CANKURTARAN Ö., KARAMAN F., Bilgin-Eran B.  
 MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.587, no.1, pp.28-40, 2013 (SCI-Expanded)
- LIII. **A study on compatibility of polymer blends of Poly(2,6-dimethyl-1,4-phenyleneoxide)/Poly(ether imide)**  
 ÇAKAR F., YAZICI Ö., CANKURTARAN Ö., KARAMAN F.  
 OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.6, pp.1153-1156, 2012 (SCI-Expanded)
- LIV. **Relaxation and Miscibility of the Blends of a Poly (Ether Imide) (Ultem (TM)) and a Phenol-A-Based Copolyester (Ardel (TM)) by Inverse Gas Chromatography**  
 Çakar F., Cankurtaran Ö., Karaman F.  
 CHROMATOGRAPHIA, vol.75, pp.1157-1164, 2012 (SCI-Expanded)
- LV. **Surface analysis of poly ether imide by inverse gas chromatography**  
 Çakar F., Yazıcı Ö., Şakar Daşdan D., Cankurtaran Ö., Karaman F.  
 Optoelectronics And Advanced Materials-Rapid Communications, vol.5, pp.821-826, 2011 (SCI-Expanded)
- LVI. **Electrical and thermodynamical characterization of thermotropic liquid crystal**  
 Sesigur F., Sakar D., Yasa-Sahin O., Kuruoglu F., Çakar F., Mogulkoc M., Çalışkan M., Cankurtaran Ö., Serin M., Bilgin-Eran B.  
 OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.5, pp.572-576, 2011 (SCI-Expanded)
- LVII. **Miscibility Studies on a Copolyester of Bisphenol-A with Terephthalic and Isophthalic Acids/Bisphenol-A Polycarbonate Blends**  
 Sakar D., Çakar F., Cankurtaran Ö., Karaman F.  
 JOURNAL OF APPLIED POLYMER SCIENCE, vol.117, pp.309-314, 2010 (SCI-Expanded)
- LVIII. **Conducting poly(ether imide)-graphite composite for some solvent vapors sensing application**  
 Çakar F., Moroglu M. R., Cankurtaran H., Karaman F.  
 SENSORS AND ACTUATORS B-CHEMICAL, vol.145, pp.126-132, 2010 (SCI-Expanded)
- LIX. **Miscibility criteria of blends of poly(2,6-di methyl-1,4-phenylene oxide)/A copolyester of bisphenol-A with terephthalic and isophthalic acids by viscometric analysis**  
 ÇAKAR F., SAKAR D., CANKURTARAN Ö., KARAMAN F.  
 OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.3, no.10, pp.1106-1109, 2009 (SCI-Expanded)
- LX. **Studies on the miscibility of poly(isobutylene) with poly(ether imide) blends in dilute solutions**  
 ÇAKAR F., CANKURTARAN Ö.  
 OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.3, no.10, pp.1110-1113, 2009 (SCI-Expanded)
- LXI. **Determination of Crystallinity Ratio and Some Physicochemical Properties of Poly(4-methyl-1-pentene)**  
 YAZICI Ö., ÇAKAR F., CANKURTARAN Ö., KARAMAN F.  
 JOURNAL OF APPLIED POLYMER SCIENCE, vol.113, no.2, pp.901-906, 2009 (SCI-Expanded)
- LXII. **Miscibility criteria of blends of polystyrene/a copolyester of bisphenol-A with terephthalic and isophthalic acids by viscometric analysis**  
 Sakar D., Çakar F., Cankurtaran Ö., Karaman F.  
 OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.3, pp.290-293, 2009 (SCI-Expanded)
- LXIII. **A Study on Swelling Behavior of Poly(p-chloro styrene) Networks in Some Aromatic Hydrocarbons**

### **and Linear Poly(p-chloro styrene) Solutions**

Celik O., Sakar D., Çakar F., Cankurtaran Ö., Karaman F.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.111, pp.1328-1334, 2009 (SCI-Expanded)

- LXIV. **Physicochemical characterization of 5-Decyloxy-2-[[[4-Hexyloxyphenyl]Imino]Methyl]Phenol liquid crystal by inverse gas chromatography**  
ÇAKAR F., YAZICI Ö., ERAN B. B., CANKURTARAN Ö., KARAMAN F.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.2, no.12, pp.871-875, 2008 (SCI-Expanded)
- LXV. **Determination of dielectric properties by solubility parameter of poly(4-methyl-1-pentene)**  
YAZICI Ö., ÇAKAR F., CANKURTARAN Ö., KARAMAN F.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.2, no.10, pp.655-658, 2008 (SCI-Expanded)
- LXVI. **Synthesis and thermodynamical interactions of (S)-5-(2-methylbutoxy)-2-[[[4-hexyloxyphenyl]imino]methyl]-phenol liquid crystal with some solvents**  
YAZICI Ö., OCAK H., ÇAKAR F., CANKURTARAN Ö., ERAN B. B., KARAMAN F.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.2, no.6, pp.366-370, 2008 (SCI-Expanded)
- LXVII. **Synthesis, characterization and retention behavior of 4-(tetradecyloxy)-N-(4-hexyloxyphenyl)-2-hydroxybenzalimine**  
ÇAKAR F., YORUR C., CANKURTARAN Ö., ERAN B. B., KARAMAN F.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.2, no.6, pp.374-378, 2008 (SCI-Expanded)
- LXVIII. **Use of inverse gas chromatography for the physicochemical characterisation of a new synthesised liquid crystal: (S)-5-(2-methylbutoxy)-2-[[[4-dodecyloxyphenyl]imino]methyl]phenol**  
OCAK H., SAKAR D., ÇAKAR F., CANKURTARAN Ö., ERAN B. B., KARAMAN F.  
LIQUID CRYSTALS, vol.35, no.12, pp.1351-1358, 2008 (SCI-Expanded)
- LXIX. **The evaluation of miscibility of blends of poly(ether imide) (Ultem((R))1000) and a copolyester of bisphenol-A with terephthalic and isophthalic acid (Ardel((R))D-100) by viscosimetry**  
Çakar F., Sakar D., Cankurtaran O., Karaman F.  
EUROPEAN POLYMER JOURNAL, vol.43, pp.507-513, 2007 (SCI-Expanded)
- LXX. **Determination of secondary transitions and thermodynamic interaction parameters of poly (ether imide) by inverse gas chromatography**  
ÇAKAR F., Cankurtaran O.  
POLYMER BULLETIN, vol.55, pp.95-104, 2005 (SCI-Expanded)
- LXXI. **A study of the electrical properties and secondary transitions of poly (ether imide)**  
Serin M., Çakar F., Cankurtaran O.  
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.7, pp.1517-1522, 2005 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **PHYSICOCHEMICAL CHARACTERIZATION OF *Portulaca oleracea* L. SURFACE BY INVERSE GAS CHROMATOGRAPHY AT INFINITE DILUTION**  
Katip D. H., Işık B., Çakar F., Cankurtaran Ö.  
Journal of Material Characterization and Applications, vol.2, no.1, pp.8-16, 2024 (Peer-Reviewed Journal)
- II. **Studies on miscibility of polyetherimide/polystyrene blends**  
IŞIK B., ÇAKAR F., CANKURTARAN Ö.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.40, no.1, pp.57-62, 2022 (ESCI)
- III. **Thermodynamic studies on tert-amine modified polystyrene based polymer/solvent systems by inverse gas chromatography method**

Adiguzel A. C., Korkmaz B., ÇAKAR F., Cankurtaran Ö., Şenkal B. F.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.39, no.5, pp.414-421, 2021 (ESCI)

**IV. THERMODYNAMICS OF A CHALCONE-BASED POLYMER BY INVERSE GAS CHROMATOGRAPHY METHOD**

Adiguzel A. C., Korkmaz B., ÇAKAR F., CANKURTARAN Ö., Hepuzer Gursel Y., Şenkal B. F., KARAMAN F.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.2, pp.581-588, 2020 (ESCI)

**V. THERMODYNAMIC INTERACTIONS OF 5-DECYLOXY-2-[[[4HEXYLOXYPHENYL]IMINO]METHYL] PHENOL WITH VARIOUS SOLVENTS**

Yazici O., ÇAKAR F., Cankurtaran O., Karaman B. B. E. F.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.27, no.1, pp.39-48, 2009 (ESCI)

## Papers Published in Refereed Scientific Meetings

- I. **Adsorption of Hazardous Methylene Blue Dye Using Vitis vinifera L. from Wastewater**  
Çakar F., Erdoğan Çakar A., Işık B., Cankurtaran Ö.  
26th JCF Spring Symposium, FJS-2024 Rethinking Chemistry Towards a Greener Future, Ulm, Germany, 13 - 16 March 2024, pp.167
- II. **Determination of Surface Properties of Angelica Plant (Angelica sylvestris)**  
Habipoğlu Atlar K., IŞIK B., ÇAKAR F.  
Cukurova 10th International Scientific Researches Conference, Adana, Turkey, 2 - 04 April 2023, pp.31-32
- III. **Determination of Thermodynamic Properties of Phenylbenzoate-based calamitic Liquid Crystals by Inverse Gas Chromatography**  
Erdoğan Çakar A., Çakar F., Ocak H., Karavelioğlu S., Bilgin Eran B., Cankurtaran Ö.  
FJS 2023 - 25th Spring Symposium, Giessen, Germany, 21 March 2023, pp.114
- IV. **Adsorptive Removal of Crystal Violet Dye from Aqueous Media Using Eco-Friendly Portulaca oleracea L. (Purslane)**  
Işık B., Kâtip D. H., Çakar F., Cankurtaran Ö.  
JCF 25th Spring Symposium, Giessen, Germany, 21 - 24 March 2023, pp.151
- V. **Determination of the surface properties of the root of the Angelica sylvestris by inverse gas chromatography**  
Çakar F., Habipoğlu Atlar M. K., Işık B., Cankurtaran Ö.  
JCF 25th Spring Symposium, Giessen, Germany, 21 - 24 March 2023, pp.98
- VI. **Semizotu Bitkisinin Yüzey Özelliklerinin Ters Gaz Kromatografi Yöntemi ile Belirlenmesi**  
Kâtip D. H., Işık B., Çakar F., Cankurtaran Ö.  
Avrasya 7th International Conference on Applied Sciences, Budapest, Hungary, 10 - 12 March 2023, pp.100
- VII. **Determination of phase transition temperatures, thermodynamic properties and isomer separation ability of 4-(Nonyloxy) benzoic acid liquid crystal**  
Işık B., Çakar F., Cankurtaran H., Cankurtaran Ö.  
Ahi Evran 2nd International Conference on Scientific Research, Kırşehir, Turkey, 21 - 23 October 2022, pp.370-372
- VIII. **Naftalin-2-Sülfonik Asit'in Poli(anilin-ko-tiyofen) Kopolimeri ile Adsorpsiyonu**  
KARADENİZ S. C., UĞRAŞKAN V., IŞIK B., ÇAKAR F.  
INSAC International Congress on Natural and Engineering Sciences (ICNES-2022), Konya, Turkey, 18 - 20 March 2022, pp.99-100
- IX. **Naftalin-2-Sülfonik Asit'in Polis(anilin-ko-tiyofen) Kopolimeri ile Adsorpsiyonu**  
Karadeniz S. C., Uğraşkan V., Işık B., Çakar F.  
VIII. INSAC International Congress on Natural and Engineering Sciences (ICNESS'22), Konya, Turkey, 18 - 20 March 2022, pp.99-100



- X. **Removal of Safranin T Dyes from Wastewaters Using Festuca Arundinacea Seed**  
Karadeniz S. C., Işık B., Uğraşkan V., Çakar F.  
International Conference on New Trends in Science and Applications (NTSA), Elazığ, Turkey, 12 - 13 October 2021, pp.30
- XI. **Investigation of the Surface Properties of 4-(Nonyloxy) Benzoic Acid Liquid Crystal**  
Işık B., Çakar F., Cankurtaran H., Cankurtaran Ö.  
International Conference on New Trends in Science and Applications (NTSA), Elazığ, Turkey, 12 - 13 October 2021, pp.28
- XII. **The Surface Thermodynamic Characteristics of New Syntheses 4 [4 ((S) 3,7 Dimethyloxy)Phenoxy)Carbonyl]Phenyl 4 (N Decyloxy) by Inverse Gas Chromatography**  
Erdoğan Çakar A., Ocak H., Çakar F., Karavelioğlu S., Bilgin Eran B., Cankurtaran Ö.  
International Conference on New Trends in Science and Applications (NTSA), Elazığ, Turkey, 12 - 13 October 2021
- XIII. **4-(Oktiloksi) Benzoik Asit Sıvı Kristalinin Yüzey Adsorpsiyon Bölgesinde Yüzey Özelliklerinin ve İzomerleri Ayırma Yeteneğinin Ters Gaz Kromatografi Yöntemi ile Belirlenmesi**  
Işık B., Çakar F., Cankurtaran H., Cankurtaran Ö.  
International Graduate Studies Congress, Balıkesir, Turkey, 17 - 20 June 2021, pp.669-672
- XIV. **Kuzu Kulağı (Rumex acetosella) Yaprağı Kullanılarak Katyonik Boyanın (Kristal Viyolet) Adsorpsiyon Yöntemi ile Sulu Çözeltilerden Uzaklaştırılması**  
Erdoğan Y., Işık B., Uğraşkan V., Çakar F.  
INTERNATIONAL CONGRESS ON SCIENCES AND ENGINEERING FOR SUSTAINABILITY 2021, İstanbul, Turkey, 16 - 18 April 2021, pp.132-134
- XV. **Determination of Miscibility of Poly (Lactic Acid) (PLA) and Poly (Ether Imide) (ULTEM) by Viscosity**  
Işık B., Uğraşkan V., Çakar F., Erdoğan Çakar A., Cankurtaran Ö.  
4th International Conference on Physical Chemistry and Functional Materials, Elazığ, Turkey, 8 - 09 April 2021, pp.9
- XVI. **Determination of The Thermodynamic Properties of 4-(Octyloxy) Benzoic Acid Liquid Crystal by Inverse Gas Chromatography and Investigation of Its Ability to Separate Isomers**  
Işık B., Çakar F., Cankurtaran H., Cankurtaran Ö.  
4th International Conference on Physical Chemistry and Functional Materials, Elazığ, Turkey, 8 - 09 April 2021, pp.63
- XVII. **Surface Characterization of Hexagonal Boron Nitride by Inverse Gas Chromatography**  
Işık B., Uğraşkan V., Çakar F., Yazıcı Ö.  
4th International Conference on Physical Chemistry and Functional Materials, Elazığ, Turkey, 8 - 09 April 2021, pp.31
- XVIII. **Surface Characterization of 4 [4 ((S) 3,7 Dimethyloxy)Phenoxy)Carbonyl]Phenyl 4 (N Octyloxy)Benzoate by Inverse Gas Chromatography**  
Erdoğan Çakar A., Çakar F., Ocak H., Bilgin Eran B., Cankurtaran Ö.  
4th International Conference on Physical Chemistry and Functional Materials, Elazığ, Turkey, 8 - 09 April 2021, pp.72
- XIX. **Investigation of The Surface Properties of Cholesteryl Chloroformate Liquid Crystal by Inverse Gas Chromatography**  
Işık B., Çakar F., Cankurtaran Ö.  
23rd Frühjahrssymposium, Leipzig, Germany, 29 March - 01 April 2021, pp.61
- XX. **KOLESTERİL KLOROFORMAT SIVI KRİSTALİNİN TERMODİNAMİK BÖLGEDE FİZİKOKİMYASAL ÖZELLİKLERİNİN VE İZOMERLERİ AYIRMA YETENEĞİNİN İNCELENMESİ**  
Işık B., Çakar F., Cankurtaran H., Cankurtaran Ö.  
International Symposium of Scientific Research and Innovative Studies, Balıkesir, Turkey, 22 - 25 February 2021, pp.336-337
- XXI. **4-(Desiloksi) Benzoik Asit Sıvı Kristalinin Termodinamik Özelliklerinin ve İzomerleri Ayırma Yeteneğinin Ters Gaz Kromatografi Yöntemi ile İncelenmesi**

Işık B., Çakar F., Cankurtaran H., Cankurtaran Ö.

International Conference on Research in Natural and Engineering Sciences (ICRNES 2020), Konya, Turkey, 14 - 15 November 2020, pp.21-23

- XXII. **Bor Fosfatın Yüzey Özelliklerinin Ters Gaz Kromatografi Metodu ile Belirlenmesi**  
Uğraşkan V., Işık B., Çakar F., Yazıcı Ö.  
32. ULUSAL KİMYA KONGRESİ, İstanbul, Turkey, 17 - 19 September 2020, pp.210
- XXIII. **Bor Fosfatın Yüzey Özelliklerinin Ters Gaz Kromatografi Metodu ile Belirlenmesi**  
UĞRAŞKAN V., IŞIK B., ÇAKAR F., YAZICI Ö.  
32. ULUSAL KİMYA KONGRESİ, İstanbul, Turkey, 17 - 19 September 2020, pp.210
- XXIV. **4 - (Desiloksi) Benzoik Asit Sıvı Kristalinin Yüzey Özelliklerinin Ters Gaz Kromatografi Metodu ile Belirlenmesi**  
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32. ULUSAL KİMYA KONGRESİ, İstanbul, Turkey, 17 - 19 September 2020, pp.86
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31.Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.253
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31.Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.75
- XXVII. **BİSFENOL A'NIN TEREFTALİK ve İZOFTALİK ASİT KOPOLİESTERİ ile POLİ (METİL METAKRİLAT)'IN KARIŞABİLİRLİĞİNİN VİSKOZİTE YÖNTEMİ İLE İNCELENMESİ**  
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31. ULUSAL KİMYA KONGRESİ, İstanbul, Turkey, 10 - 13 September 2019, pp.376
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21.JCF-Frühjahrssymposium, Bremen, Germany, 20 March 2019, pp.202
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Çiğdem Adıgüzel A., CANKURTARAN Ö., ÇAKAR F., Hepuzer Gürsel Y., Şenkal B. F., KARAMAN F.  
21st JCF Spring Symposium and 2nd European Young Chemists' Meeting, Bremen, Germany, 20 March 2019, pp.128
- XXX. **Thermodynamic Characterization of Poly(vinyl benzyl chloride) by IGC Method**  
Habiboğlu M. K., Çakar F., Şenkal B. F., Cankurtaran Ö., Gürsel Y., Karaman F.  
21.JCF-Frühjahrssymposium, Bremen, Germany, 20 - 23 March 2019, pp.122
- XXXI. **Polimetilmetakrilat/Sıvı Kristal Esaslı Polimer Kompozitlerin Sensör Özelliklerinin İncelenmesi**  
Öztürk E., CANKURTARAN H., ÇAKAR F., OCAK H., BİLGİN ERAN B.  
VII. Polimer Bilim ve Teknoloji Kongresi, Eskişehir, Turkey, 09 September 2018, pp.256
- XXXII. **Surface Characterization of Poly(vinyl benzyl chloride) by IGC Method**  
MELEK KÜBRA H., ÇAKAR F., ADIGÜZEL A. Ç., ŞENKAL B. F., CANKURTARAN Ö., GÜRSEL Y., KARAMAN F.  
VII.Polimer Bilim ve Teknoloji Kongresi, Turkey, 9 - 12 September 2018
- XXXIII. **A Study on Thermodynamic Properties by IGC Method for a NewChalcone-Based Polymer**  
ADIGÜZEL A. Ç., KORKMAZ B., ÇAKAR F., CANKURTARAN Ö., GÜRSEL Y., ŞENKAL B. F., KARAMAN F.  
Icaamm2018, 20 - 24 June 2018
- XXXIV. **Determination of the Surface Energy of a Chalcone-BasedPolymer by IGC Method**  
ADIGÜZEL A. Ç., KORKMAZ B., ÇAKAR F., ŞENKAL B. F., CANKURTARAN Ö., GÜRSEL Y., KARAMAN F.  
Icaamm2018, 20 - 24 June 2018
- XXXV. **Investigation of Thermodynamic Characterisation of 4- [4-(10-Undecenyloxy)Benzoyloxy]Benzoic Acid Thermotropic Liquid Crystal by Inverse Gas Chromatography**  
CANKURTARAN Ö., Balkanlı E., OCAK H., ÇAKAR F., Haşhaş N., BİLGİN ERAN B., KARAMAN F.  
20 th JCF Frühjahrssymposium 2018, Konstanz, Germany, 21 March 2018, pp.29

- XXXVI. **Determination Of The Thermodynamic Properties Of Poly(methylmethacrylate)-carbon Nanotube Composite At Infinite Dilution Using Inverse Gas Chromatography**  
ERDOĞAN ÇAKAR A., AYKAN Ö., ÇAKAR F., CANKURTARAN Ö., KARAMAN F.  
Jcf 20. Frühjahrssymposium, Konstanz, Germany, 21 March 2018, pp.109
- XXXVII. **The Separation of Isomers on Liquid Crystal Stationary Phase in Gas Chromatography**  
Balkanlı E., Çakar F., Ocak H., Cankurtaran Ö., Bilgin Eran B., Karaman F.  
19th JCF- Frühjahrssymposium, Mainz, Germany, 29 March - 01 April 2017, pp.168
- XXXVIII. **Synthesis and physicochemical characterization of zincphthalocyanine by inverse gas chromatography**  
EKEN KORKUT S., YAZICI Ö., ÇAKAR F.  
International Congress on Fundamental and Applied Sciences, 22 - 26 August 2016
- XXXIX. **Poli(eter imid) ile 4-[4-(tetradesiloksi)benzoiloksi]benzoik asid Sıvı Kristali Karışımlarının Karışabilirliğinin Viskozite Yöntemi ile İncelenmesi, P46**  
Özkal S., ÇAKAR F., OCAK H., BİLGİN ERAN B., CANKURTARAN Ö., KARAMAN F.  
5. Fiziksel Kimya Kongresi, Konya, Turkey, 16 May 2015
- XL. **Bütillendirilmiş Hidroksianisol Grubu İçeren Ftalosiyanınin Yüzey Özelliklerinin Belirlenmesi**  
Eken Korkut S., Yazıcı Ö., Çakar F.  
5. Fiziksel Kimya Kongresi, Konya, Turkey, 16 - 19 May 2015, pp.177
- XLI. **Morphology and Characterization of Polymer Dispersed Liquid Crystal by Solvent -Induced Phase Separation**  
MUTLU YANIÇ S., OCAK H., GÜZELLER D., ÇAKAR F., CANKURTARAN Ö., BİLGİN ERAN B.  
All in one conferences, Dubai, United Arab Emirates, 24 March 2015, pp.84
- XLII. **Investigation on Thermodynamic Properties of 4-Decyloxybiphenyl-4'-carboxylic acid Liquid Crystal by Inverse Gas Chromatography**  
Çakar F., Karanlık G., Ocak H., Bilgin Eran B., Cankurtaran Ö., Karaman F.  
All In One Conferences, Dubai, United Arab Emirates, 24 March 2015, pp.1
- XLIII. **Polymethylmethacrylate/carbon nanotube/liquid crystal based mass sensitive sensors for solvent vapors**  
CANKURTARAN H., Çakar F., Bilgin Eran B.  
AIOC, All in One Conference, 01 March 2015, pp.80
- XLIV. **4-Desiloksi-4'-BifenilKarboksilik Asid Sıvı Kristalinin Yüzey Özelliklerinin Ters Gaz Kromatografisi İle İncelenmesi**  
ÇAKAR F., Keskinlik M., KARANLIK G., OCAK H., CANKURTARAN Ö., BİLGİN ERAN B., KARAMAN F.  
4. Fiziksel Kimya Kongresi, Denizli, Turkey, 05 June 2014
- XLV. **4-[4-(2- Etilheksiloksi)benzoiloksi]benzoik Asid Sıvı Kristali ile Poli(eter imid) Karışımlarının Karışabilirliğinin Viskozite Yöntemi ile İncelenmesi, PSK15**  
Özkal S., ÇAKAR F., OCAK H., BİLGİN ERAN B., CANKURTARAN Ö., KARAMAN F.  
IV. Ulusal Polimer Bilim ve Teknoloji Kongresi, Çanakkale, Turkey, 05 September 2012
- XLVI. **4-[4-(S)-Sitroneliloksi]benzoiloksi]benzoik asid Sıvı Kristalinin Yüzey Özelliklerinin Ters Gaz Kromatografisi Yöntemi İle İncelenmesi, P91**  
EROL I., ÇAKAR F., OCAK H., BİLGİN ERAN B., CANKURTARAN Ö., KARAMAN F.  
III. Fiziksel Kimya Günleri, Balıkesir, Turkey, 12 July 2012
- XLVII. **Organokil/Sıvı Kristal Nanokompozitleri, P110**  
MUTLU-YANIC S., GUZELLER D., EROL I., OCAK H., ÇAKAR F., CANKURTARAN Ö., BİLGİN ERAN B.  
III. Fiziksel Kimya Günleri, Balıkesir, Turkey, 12 July 2012
- XLVIII. **Electrical Characterization of Thermotropic Liquid Crystal**  
Sesigür F., Şakar D., Kuruoğlu F., Yaşa Şahin O., Çakar F., Mogulkoc M., Caliskan M., Cankurtaran Ö., Serin M., Bilgin Eran B.  
28. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2011, pp.0-561
- XLIX. **Mesogenik 5-Dodesiloksi-2-[[[4-(S)-(2-Metilbutoksi)Fenil]-İmino]Metil]Feno]' ün Termodinamik Etkileşim Parametrelerinin Ters Gaz Kromatografisi İle Belirlenmesi**

Cankurtaran Ö., Sesigür F., Şakar D., Yaşa Şahin O., Kuruoğlu F., Çakar F., Mogulkoc M., Caliskan M., Serin M., Bilgin Eran B.

Kimya Günleri 2011, İstanbul, Turkey, 8 - 10 June 2011, pp.22

- L. **The Evaluation of Miscibility of Poly Sulfone-Polysiloxane Blends By Viscometry**  
Kaya M. A., Çakar F., Yıldırım H.  
IX. Chemical Physics Congress, İzmir, Turkey, 14 - 16 October 2010, pp.50
- LI. **Electrical Properties of Poly(Sulfonic Diphenyl Aniline) and Its Diblock Copolymer with Poly(Ethylene Oxide)**  
Serin M., Yazıcı Ö., Çalışkan M., Çakar F., Kuruoğlu F., Karaman F.  
Solar TR-1, Ankara, Turkey, 29 - 30 April 2010
- LII. **Determination of Dielectric Properties by Solubility Parameter of Poly (4-Methyl-Pentene)**  
Cankurtaran Ö., Yazıcı Ö., Çakar F., Karaman F.  
25th International Physical Congress, Muğla, Turkey, 25 - 29 August 2008, pp.376
- LIII. **Use Of Inverse Gas Chromatography To Determine Of Miscibility Of A Mixture Of Poly (Ether Imide) And A Copolyester Of Bisphenol A-With Terephthalic Acid And Isophthalic Acid**  
Çakar F., Cankurtaran Ö., Karaman F.  
Chemical Physics Conference VIII, İstanbul, Turkey, 24 - 25 April 2008, pp.23
- LIV. **A Study on The Response of Some Solvent Vapors on Conductometric Sensor Based on The Poly(Ether Imide)-Graphite Composites**  
Çakar F., Moroğlu M., Cankurtaran H., Cankurtaran Ö., Karaman F.  
5th Aegean Analytical Chemistry Days, Thessaloniki, Greece, 5 - 08 October 2006, pp.132
- LV. **Grafit ile Katkılanmış Poli(Eter İmid)'in İletkenlik Sensörü Olarak Kullanımı ve Solventlerle Etkileşiminin Ters Gaz Kromatografisi ile İncelenmesi**  
ÇAKAR F., Moroğlu R., CANKURTARAN H., CANKURTARAN Ö., KARAMAN F.  
XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 04 September 2006
- LVI. **Electrical Properties of Doped and Undoped Ultem Films**  
Serin M., Cankurtaran Ö., Çakar F.  
2 nd International Aegean Physical Chemistry Days, Balıkesir, Turkey, 7 - 10 October 2004, vol.1, no.1, pp.1
- LVII. **5-Desiloksi-2-[[[4-heksiloksifenil]imino]metil]-fenol 'ün Aromatik Çözücülerle Termodinamik Etkileşimleri**  
Cankurtaran Ö., Yazıcı Ö., Çakar F., Bilgin Eran B., Karaman F.  
22. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kktc), 06 October 2008, pp.147
- LVIII. **Miscibility Studies Of Binary Mixtures Of Polymers By Viscometry: Ardel? D-100 / Poly (2,6-Di Methyl-1,4- Phenylene Oxide)**  
CANKURTARAN Ö., Şakar D., Çakar F., Karaman F.  
Chem.05 Green and Sustainable Chemistry in Developing Countries, Egypt, pp.16
- LIX. **Equation Of State Parameters Of 4-(Tetradecyloxy)-N-(4-Hexyloxyphenyl)-2-Hydroxybenzalimine Liquid Crystal With Some Solvents**  
CANKURTARAN Ö., Çakar F., Bilgin Eran B., Karaman F.  
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- LX. **Determination Of The Ratio Of Crystallinity And Physicochemical Properties Of Poly(4-Methyl-1-Pentene) Using Inverse Gas Chromatography**  
Cankurtaran Ö., Yazıcı Ö., Çakar F., Karaman F.  
Chemical Physics Conference VIII, İstanbul, Turkey, 25 April 2008, pp.75
- LXI. **Investigation of Surface Characterisation of 4-(2-Ethyloxy) Benzoyloxy? Benzoic Acid Thermotropic Liquid Crystal by Inverse Gas Chromatography**  
CANKURTARAN Ö., Çakar F., Ocak H., Öztürk E., Bilgin Eran B., Karaman F.  
4TH Portuguese young chemists meeting, 4PYCCHEM, Portugal
- LXII. **Of Dielectric Properties By Solubility Parameter Of Poly(4-Methyl-1-Pentene)**  
CANKURTARAN Ö., Yazıcı Ö., Çakar F., Karaman F.  
25 th International Physics Congress, Muğla, Turkey

- LXIII. **Surface Characterization and Thermodynamic Interactions of Poly(ethylene glycol)/solvent systems by Inverse Gas Chromatography**  
Cankurtaran Ö., Sesigür F., Şakar D., Yazıcı Ö., Çakar F., Karaman F.  
8th International IUPAC Conference Polymer-Solvent Complexes & Intercalates, Strasbourg, France, 05 July 2010, pp.16
- LXIV. **Investigation of Thermodynamic and Surface Characterisation of 5-((S)-3,7-dimethyloctyloxy)-2-[[[4-(dodecanyloxy)phenyl]imino]methyl]phenol Calamitic Liquid Crystal by Inverse Gas Chromatography**  
CANKURTARAN Ö., Mutlu Yaniç S., Güzeller D., Çakar F., Bilgin Eran B., Karaman F.  
The International Conference on Science, Ecology and Technology 1, ICONSETE, Austria, pp.39
- LXV. **Polikarbonat/ ARDEL? D-100 Karışımlarının Karışabilirliğinin Vizkozite Yöntemi ile İncelenmesi**  
CANKURTARAN Ö., Cansever Ş., Moroğlu M., Şakar D., Çakar F., Karaman F.  
2.Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Şanlıurfa, Turkey, pp.102
- LXVI. **A Study on The Miscibility of A Copolyester of Bisphenol-A with Terephthalic Acid and Isophthalic Acid- Poly(2,6-Dimethyl -1,4- Phenylene Oxide) Blends” Processing and Properties of Reinforced Polymers**  
CANKURTARAN Ö., Çakar F., Karaman F.  
3rd China-Europe Symposium, Hungary, pp.50
- LXVII. **Tosillendirilmiş Polietilen Glikol’ün Çeşitli Çözücülerle Termodinamik Etkileşim Parametrelerinin Ters Gaz Kromatografi Metodu İle Belirlenmesi**  
Cankurtaran Ö., İmano F., Şakar D., Çakar F., Yazıcı Ö., Karaman F.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June 2010, pp.97
- LXVIII. **The Evaluation of Miscibility of Poly (Ether Imide)- Poly(2,6-Dimethyl-1,4 Phenylene Oxide) Blends by Viscometry**  
CANKURTARAN Ö., Çakar F.  
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5. Fiziksel Kimya Kongresi, Konya, Turkey
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5.Fiziksel Kimya Kongresi
- LXXVI. **Mesogenik 4-Tetradesiloksi-N-(4-Heksiloksifenil)-2-Hidroksibenzalimin’in Faz Geçişlerinin ve**

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- LXXXVII. **Determination of The Thermodynamic Properties of Ultem at Infinite Dilution Using Inverse Gas Chromatography**  
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4. Fiziksel Kimya Kongresi, Denizli, Turkey
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Chemical Physics VII, Isparta, Turkey
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5.Fiziksel Kimya Kongresi
- LXXXIV. **Secondary Transitions and Miscibility of Poly (Ether Imide) and A Copolyester of Bisphenol-A Blends in Dilute Solution**  
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ÇAKAR F., Yörür Ç., Cankurtaran Ö., Bilgin Eran B., Karaman F.  
IX.Chemical Physics Congress
- LXXXVII. **Determination of Secondary Transition Temperature of Novel Phthalocyanine Glass**  
Yazıcı Ö., ÇAKAR F.  
18th JCF-Frühjahrssymposium
- LXXXVIII. **A Study on Swelling Behavior of Poly (Methyl Acrylate) Networks in Linear Poly (Methyl Acrylate) Solutions**  
ÇAKAR F., Şakar D., Cankurtaran Ö., Karaman F.  
3rd China- Europe Symposium
- LXXXIX. **Polymer-Dispersed Liquid Crystal Doped With Various Ratios Of Carbon Nanotubes**  
ÇAKAR F., Ocak H., Cankurtaran Ö., Bilgin Eran B.

## Supported Projects

- CANKURTARAN Ö., IŞIK B., ÇAKAR F., Katip D. H., SARIÖZ N., Project Supported by Higher Education Institutions, Sodyum Aljinat/Pektin/Portulaca oleracea L Kompozitlerinin Adsorpsiyon Davranışının İncelenmesi, 2023 - 2024
- CANKURTARAN H., TARI E., CANKURTARAN Ö., ÇAKAR F., YAZICI Ö., ERDOĞAN ÇAKAR A., IŞIK B., UĞRAŞKAN V., KARADENİZ S. C., Project Supported by Higher Education Institutions, Bor Bileşikleri ile Katkılandırılan Polianilin Matrisli Kompozitlerin Elektrokimyasal Özelliklerinin İncelenmesi, 2021 - 2024
- ÇAKAR F., YAZICI Ö., CANKURTARAN Ö., ERDOĞAN ÇAKAR A., IŞIK B., UĞRAŞKAN V., Karadeniz S. C., Project Supported by Higher Education Institutions, Poli(anilin-ko-tiyofen) Kopolimerinin TKG Metoduyla Karakterizasyonu ve Adsorpsiyon Özelliklerinin İncelenmesi, 2022 - 2023
- Işık B., Akdemir M., Çakar F., Cankurtaran Ö., Project Supported by Higher Education Institutions, Bazı Bitkilerin Yüzeysel Özelliklerinin Ters Gaz Kromatografi Yöntemiyle Belirlenmesi ve Adsorpsiyon Yeteneklerinin Değerlendirilmesi, 2021 - 2023
- CANKURTARAN Ö., ÇAKAR F., IŞIK B., Project Supported by Higher Education Institutions, Sıvı Kristallerin Çözücülerle Etkileşimlerinin Kromatografik ve İmpedimetrik Yöntemlerle İncelenmesi, 2020 - 2023
- YAZICI Ö., CANKURTARAN Ö., ÇAKAR F., IŞIK B., UĞRAŞKAN V., Project Supported by Higher Education Institutions, Lignoselülozik Materyal Esaslı Adsorbanlar ile Atık Sulardan Tekstil Boyalarının Adsorpsiyon Yöntemi ile Uzaklaştırılması, 2021 - 2022
- ÇAKAR F., UĞRAŞKAN V., CANKURTARAN Ö., YAZICI Ö., IŞIK B., ERDOĞAN ÇAKAR A., Project Supported by Higher Education Institutions, Tek duvarlı karbon nanotüp ile blend edilmiş Ultem ve Ardel polimerlerinin ters gaz kromatografi yöntemi ile termodinamik karakterizasyonu, 2021 - 2022
- CANKURTARAN Ö., CANKURTARAN H., ÇAKAR F., IŞIK B., Çiğdem Adıgüzel A., Project Supported by Higher Education Institutions, Sıvı Kristallerin Faz Geçiş Sıcaklıklarının Termodinamik ve Yüzeysel Özelliklerinin Ters Gaz Kromatografi Metoduyla İncelenmesi ve Sensör Özelliklerinin Belirlenmesi, 2019 - 2022
- CANKURTARAN H., CANKURTARAN Ö., ÇAKAR F., IŞIK B., Project Supported by Higher Education Institutions, Gıda Ürünleri Kalitesinin Belirlenmesi için Sıvı Kristal Esaslı Algılayıcı Sensör Elemanları Geliştirilmesi, 2018 - 2021
- ÇAKAR F., Habiboğlu M. K., Project Supported by Higher Education Institutions, Polivinil benzil klorür polimerinin termodinamik ve yüzeysel özelliklerinin ters gaz kromatografisi ile belirlenmesi, 2019 - 2020
- EKEN KORKUT S., ÇAKAR F., Project Supported by Higher Education Institutions, Bütillendirilmiş Hidroksianisol Grubu İçeren Ftalosiyanınin Yüzeysel Özelliklerinin Belirlenmesi, 2015 - 2017
- Ocak H., Çakar F., Cankurtaran H., Cankurtaran Ö., Bilgin Eran B., Project Supported by Higher Education Institutions, Polimer Karbon Nanotüp ve Polimer Karbon Nanotüp Sıvı Kristal Kompozit Hazırlama Yöntemleri ve Bu Hazırlanan Örneklerin Fizikokimyasal Karakterizasyonu, 2014 - 2017
- Cankurtaran Ö., Yazıcı Ö., Karaman F., Bilgin Eran B., Şakar Daşdan D., Çakar F., Ocak H., Güzeller D., Mutlu S., Erol İ., Project Supported by Higher Education Institutions, Sıvı Kristal Kil Sıvı Kristal Organokil Nanokompozitlerin Hazırlanması ve Karakterizasyonu, 2012 - 2015
- Cankurtaran Ö., Yörür Göreci Ç., Karaman F., Ocak H., Bilgin Eran B., Şakar Daşdan D., Çakar F., Serin M., Akat E., Yazıcı Ö., Project Supported by Higher Education Institutions, Sıvı Kristal Materyallerin Sentezi ve Fizikokimyasal Karakterizasyonu , 2010 - 2012
- Karaman F., Cankurtaran Ö., Cankurtaran H., Çakar F., Şakar Daşdan D., Serin M., TUBITAK Project, Yariletken, amfilik ve kendiliğinden düzenlenebilen diblok kopolimer yardımıyla hazırlanan organik/inorganik hibrit nanopartiküllerin incelenmesi, 2008 - 2011
- Serin M., Yazıcı Ö., Can N., Can Ömür B., Şakar Daşdan D., Çakar F., Karaman F., Cankurtaran Ö., Project Supported by Higher Education Institutions, Yüksek vakum elektriksel ölçüm sistemi ile karbon nanotüp katkılı polimerlerin farklı şartlarda elektriksel özelliklerinin belirlenmesi, 2007 - 2011
- Serin M., Karaman F., Cankurtaran Ö., Can Ömür B., Can N., Şakar Daşdan D., Çakar F., Project Supported by Higher Education Institutions, Elektriksel Ölçüm Sisteminin Kurulması ve İleri Teknoloji Malzemeleri Olarak Kullanılan İnce Filmlerin Opto-elektronik Karakterizasyonu, 2007 - 2011

Şakar Daşdan D., Cankurtaran H., Cankurtaran Ö., Serin M., Karaman F., Çakar F., Yazıcı Ö., Project Supported by Higher Education Institutions, Amfilik blok kopolimerlerin sentezi ve misel özelliklerinin incelenmesi, 2008 - 2010  
Şakar Daşdan D., Karaman F., Cankurtaran H., Cankurtaran Ö., Çakar F., Project Supported by Higher Education Institutions, Grafit ve Karbon Nanotüp Esaslı Organik Gaz/Buhar Sensörlerinin Cevaplarına Polimerin ve Gazın/Buharın Yapısal Özelliklerinin Etkilerinin İncelenmesi, 2007 - 2010  
Çakar F., Cankurtaran Ö., Project Supported by Higher Education Institutions, Poli Eter İmid in Ultem Bisfenol A nın Tereftalik Asit ve İzofthalik Asit Kopoliesteri Ardel ve Poli 2 6 Dimetil 1 4 Fenilen Oksit PPO ile ikili Karışımlarının Karışabilirlik Bölgelerinin Gaz Kromatografisi ve Viskozite Yöntemleri ile Belirlenmesi, 2006 - 2010

## Peer Reviews in Scientific Publications

PHASE TRANSITIONS, SCI Journal, March 2022  
BIOMASS CONVERSION AND BIOREFINERY, SCI Journal, February 2022  
CURRENT PHARMACEUTICAL BIOTECHNOLOGY, SCI Journal, December 2021  
Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, November 2021  
JOURNAL OF NANOMATERIALS, SCI Journal, October 2021  
PHASE TRANSITIONS, SCI Journal, October 2021  
SCIENTIFIC REPORTS, SCI Journal, September 2021  
FRONTIERS IN CHEMISTRY, SCI Journal, April 2021  
JOURNAL OF CHEMICAL AND ENGINEERING DATA, SCI Journal, July 2020  
JOURNAL OF CHEMICAL AND ENGINEERING DATA, SCI Journal, December 2019  
PHASE TRANSITIONS, SCI Journal, October 2019  
POLYMERS FOR ADVANCED TECHNOLOGIES, SCI Journal, July 2014

## Metrics

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