

Prof. Özlem CANKURTARAN

Personal Information

Email: kurtaran@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/kurtaran>

International Researcher IDs

ORCID: 0000-0002-8383-1170

Publons / Web Of Science ResearcherID: AAZ-7815-2020

ScopusID: 55918161600

Yoksis Researcher ID: 3221

Education Information

Doctorate, Yildiz Technical University, Fen Bilimleri, Turkey 1992 - 1996

Dissertations

Doctorate, POLİ(DİMETİL SİLOKSAN), POLİ(METİL METAKRİLAT), POLİKARBONATIN ÇEŞİTLİ ÇÖZÜCÜLERLE VE POLİ(METİL METAKRİLAT)' IN POLİKARBONAT İLE ETKİLEŞİMLERİNİN TERS GAZ KROMATOĞRAFİSİ İLE İNCELENMESİ, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Kimya/Fizikokimya, 1996

Postgraduate, Poli(p-klorostiren)'xx in Endotermik ve Ekzotermik Çözücülerle Etkileşimin Ters Gaz Kromatografi Yöntemiyle İncelenmesi, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Kimya, 1990

Research Areas

Chemistry, Physical Chemistry, Polymeric Materials, Liquid Crystals and LCP, Thermodynamics, Natural Sciences

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Kimya, 1989 - Continues

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Gedik Üniversitesi, June, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- 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)

- II. **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)
- III. **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**
Cakar A., ÇAKAR F., OCAK H., Karavelioglu S., BİLGİN ERAN B., CANKURTARAN Ö.
JOURNAL OF MOLECULAR STRUCTURE, vol.1265, 2022 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **Effective biosorption of methylene blue dye from aqueous solution using wild macrofungus (Lactarius piperatus)**
IŞIK B., UĞRAŞKAN V., CANKURTARAN Ö.
Separation Science and Technology (Philadelphia), vol.57, no.6, pp.854-871, 2022 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **Investigation of the surface properties of dibutyl amine modified poly(styrene) based polymer by inverse gas chromatography method**
Adıguzel A. C., Korkmaz B., Cakar F., Cankurtaran O., Senkal B. F.
JOURNAL OF POLYMER RESEARCH, vol.28, no.3, 2021 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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.
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- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **Investigation of acid-base and surface characteristics of a thermotropic semifluorinated salicylaldehyde liquid crystal by inverse gas chromatography**
Yazıcı Ö., Ocak H., Yasa-Sahin O., Sakar D., Cankurtaran Ö., Karaman F., Bilgin-Eran B.
LIQUID CRYSTALS, vol.39, no.12, pp.1421-1426, 2012 (SCI-Expanded)
- XXXI. **Thermodynamic and surface characterisation of (S)-5-dodecycloxy-2-[[[4-(2-methylbutoxy)phenyl]imino]methyle]phenol thermotropic liquid crystal by inverse gas chromatography**
Sesigur F., Sakar D., Yasa-Sahin O., Ocak H., Cankurtaran Ö., Bilgin-Eran B., Karaman F.
LIQUID CRYSTALS, vol.39, pp.87-97, 2012 (SCI-Expanded)
- XXXII. **Thermodynamical Study of Poly(n-hexyl methacrylate) with Some Solvents by Inverse Gas Chromatography**
Yazıcı Ö., Sakar D., Cankurtaran Ö., Karaman F.
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- XXXIII. **Surface analysis of poly(ether imide) by inverse gas chromatography**
ÇAKAR F., YAZICI Ö., Sakar D., CANKURTARAN Ö., KARAMAN F.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.5, no.8, pp.821-826, 2011 (SCI-Expanded)
- XXXIV. **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.
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- XXXV. **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)
- XXXVI. **A new liquid crystal of considerable value for the separation of closely related solvents by gas chromatography**
YAŞA-ŞAHİN O., YAZICI Ö., KARAAGAC B., SAKAR D., CANKURTARAN Ö., Bilgin-Eran B., KARAMAN F.
LIQUID CRYSTALS, vol.37, no.9, pp.1111-1118, 2010 (SCI-Expanded)
- XXXVII. **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**
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- XXXVIII. **Studies on the miscibility of poly(isobutylene) with poly(ether imide) blends in dilute solutions**
ÇAKAR F., CANKURTARAN Ö.
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- XXXIX. **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)
- XL. **Miscibility criteria of blends of polystyrene a copolyester of bisphenol A with terephthalic and isophthalic acids by viscometric analysis**
Şakar Daşdan D., Çakar F., Cankurtaran Ö., Karaman F.
Optoelectronics And Advanced Materials-Rapid Communications, vol.3, pp.290-293, 2009 (SCI-Expanded)
- XLI. **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)
- XLII. **Evaluations on the miscibility of the mixtures of poly(2,6-dimethyl-1,4-phenylene oxide) and a copolyester of bisphenol-A**
SAKAR D., CANKURTARAN Ö., KARAMAN F.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.20, no.3, pp.291-297, 2009 (SCI-Expanded)
- XLIII. **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)
- XLIV. **Physicochemical characterization of 5 Decyloxy 2 4 Hexyloxyphenyl Imino Methyl Phenol liquid crystal by inverse gas chromatography**
ÇAKAR F., YAZICI Ö., BİLGİN ERAN B., CANKURTARAN Ö., KARAMAN F.
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- XLV. **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, pp.655-658, 2008 (SCI-Expanded)
- XLVI. **Detection of microphase separation in poly(tert-butyl acrylate-b-methyl methacrylate) synthesized via atom transfer radical polymerization by inverse gas chromatography**
Aydin S., Erdogan T., Sakar D., Hızal G., CANKURTARAN Ö., Tunca Ü., KARAMAN F.
EUROPEAN POLYMER JOURNAL, vol.44, no.7, pp.2115-2122, 2008 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **Synthesis and thermodynamical interactions of (S)-5-(2-methylbutoxy)-2-[[[4-hexyloxyphenyl]imino]methyl]-phenol liquid crystal with some solvents**
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- XLIX. **Synthesis and thermodynamical interactions of S 5 2 methylbutoxy 2 4 hexyloxyphenyl imino methyl phenol liquid crystal with some solvents**
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- L. **Synthesis and characterization of (S)-5-(2-Methylbutoxy)-2-[[[4-Hexylphenyl]Imino]Methyl]Phenol**

liquid crystal by inverse gas chromatography

OCAK H., YAZICI Ö., ERAN B. B., CANKURTARAN Ö., KARAMAN F.

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- LI. **Synthesis and characterization of S 5 2 Methylbutoxy 2 4 Hexylphenyl Imino Methyl Phenol liquid crystal by inverse gas chromatography**
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- LII. **Determination of transition points and thermodynamic interaction parameters of poly(2,6-dimethyl-1,4-phenylene oxide)**
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- LIII. **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**
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- LIV. **Detecting organic vapors using a conductometric sensor prepared from Ardel((R))D-100 and graphite**
Yazıcı Ö., Moroglu M. R., Cankurtaran H., Cankurtaran Ö., Karaman F.
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- LV. **A study of some equation-of-state parameters of poly(methylhydrosiloxane-co-dimethylsiloxane) with some solvents by gas chromatography**
COSKUN S., Cankurtaran O., ERAN B. B., SARAC A.
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- LVI. **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**
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- LVII. **Swelling behavior of polystyrene networks in some aliphatic esters and linear polystyrene solutions**
Sakar D., Sarac A., Cankurtaran O., Karaman F.
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- LVIII. **Doping type effect on electrical conductivity of poly(2,6-dimethyl-1,4-phenylene oxide) and electrical properties of doped and undoped poly(2,6-dimethyl-1,4-phenylene oxide)/Ardel (R) D-100 films**
SERİN M., Sakar D., CANKURTARAN Ö., KARAMAN F.
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- LX. **Physicochemical characterization of poly(tert-butyl acrylate-b-methyl methacrylate) prepared with atom transfer radical polymerization by inverse gas chromatography**
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- LXI. **Thermodynamic interactions of a copolyester of bisphenol A with terephthalic acid and isophthalic acid with some solvents**
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- LXII. **Doping effect on electrical properties of poly (2,6-dimethyl- 1, 4- phenylene oxide) films**
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- Journal Of Optoelectronics And Advanced Materials, vol.7, no.6, pp.3121-3125, 2005 (SCI-Expanded)
- LXIII. **Determination of secondary transitions and thermodynamic interaction parameters of poly (ether imide) by inverse gas chromatography**
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- LXIV. **Analysis of polyarylate ardel (R) D-100 films undoped and doped by BF4- as a function of the doping concentration**
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- LXV. **A study of the electrical properties and secondary transitions of poly (ether imide)**
Serin M., Cakar F., Cankurtaran O.
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- LXVI. **The ratio of crystallinity and thermodynamical interactions of polycaprolactone with some aliphatic esters and aromatic solvents by inverse gas chromatography**
Sarac A., Sakar D., Cankurtaran O., Karaman F.
POLYMER BULLETIN, vol.53, pp.349-357, 2005 (SCI-Expanded)
- LXVII. **Determination of rate of crystallinity and thermodynamical interaction parameters of polycaprolactone with some solvents by gas chromatography**
Sarac A., Cankurtaran O., Yilmaz F.
MACROMOLECULAR SYMPOSIA, vol.217, pp.301-306, 2004 (SCI-Expanded)
- LXVIII. **Determination of glass transition temperature of a polyarylate by using both inverse gas chromatography and electrical conductivity measurements**
Serin M., Sakar D., Cankurtaran O., Yilmaz F.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.6, no.1, pp.283-288, 2004 (SCI-Expanded)
- LXIX. **Secondary transitions and thermodynamic interaction parameters of poly (phenyl sulfone) by gas chromatography**
Cankurtaran Ö., Serin M., Cankurtaran H., Yilmaz F.
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- LXX. **Electrical conductivity measurements in the range of temperature induced conformational transitions in undoped and doped glassy poly phenyl sulfone**
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- LXXI. **Electrical conductivity measurements in the range of temperature induced conformational transitions in undoped and doped glassy poly (phenyl sulfone)**
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- LXXII. **Determination of some thermodynamical interaction parameters of polycaprolactone with some solvents by inverse gas chromatography**
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POLYMER INTERNATIONAL, vol.51, pp.1285-1289, 2002 (SCI-Expanded)
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