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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Graduate School of Natural and Applied Sciences, Turkey 1982 - 1988

Foreign Languages

English, C1 Advanced

Research Areas

Composites, Fiber Technology, nanocomposites, Characterization of Polymers, Polymeric Complexes, Polymeric Materials, Spectroscopy, Thermoset Polymers

Advising Theses

HACALOĞLU J., Effect of aromatic boronic acids on thermal characteristics of polybenzoxazine derivatives and composites, Doctorate, H.İpek(Student), 2019

HACALOĞLU J., Preparation and characterization of combustion modified polyurethane, Postgraduate, P.Baysal(Student), 2019

HACALOĞLU J., KAYRAN İŞÇİ C., Poly(lactic acid) blends, composites and fibers and direct pyrolysis mass spectrometry for nanoclay composites, Doctorate, E.ÖZDEMİR(Student), 2017

HACALOĞLU J., YILMAZ A., Effects of boron compound on characteristics of poly(methyl methacrylate) and its nanocomposites, Postgraduate, M.Göktaş(Student), 2016

HACALOĞLU J., YILMAZ A., Effects of boron compounds on characteristics of poly(methyl methacrylate) and its nanocomposites, Postgraduate, M.GÖKTAŞ(Student), 2016

HACALOĞLU J., Characteristics of polylactide composites involving montmorillonite and boron compounds, Postgraduate, A.ÖYKÜ(Student), 2016

HACALOĞLU J., KAYRAN İŞÇİ C., Synthesis and characterization of metal functional polybenzoxazines / , Doctorate, T.LEKESİZ(Student), 2014

HACALOĞLU J., TİNCER İ. T., The effects of type and amount of organically modified montmorillonites on thermal degradation behavior and mechanical properties of poly(lactic acid), Postgraduate, E.ÖZDEMİR(Student), 2014

HACALOĞLU J., YILMAZER Ü., Thermal characterization of composites of polyamide-6 and polypropylene involving

boron compounds via direct pyrolysis mass spectrometry, Doctorate, G.CEYDA(Student), 2013

HACALOĞLU J., KAYNAK C., Effects of nanoparticles on thermal characteristics of polyamide-6, polylactic acid and polystyrene involving various flame retardants, Doctorate, H.KAYA(Student), 2013

HACALOĞLU J., The characterization of some methacrylate and acrylate homopolymers, copolymers and fibers via direct pyrolysis mass spectroscopy, Doctorate, S.ÖZLEM(Student), 2012

HACALOĞLU J., The Characterization of some methacrylate and acrylate homopolymers, copolymers and fibers via direct pyrolysis mass spectroscopy, Doctorate, S.Özlem(Student), 2012

HACALOĞLU J., TOPPARE L. K., Investigation of thermal characteristics of a series polyoxazolines by direct pyrolysis mass spectrometry, Postgraduate, N.Atıkan(Student), 2011

TOPPARE L. K., HACALOĞLU J., Investigation of thermal characteristics of a series of polyoxazolines by direct pyrolysis mass spectrometry, Postgraduate, N.ATILKAN(Student), 2011

HACALOĞLU J., KAYRAN İŞÇİ C., The effect of inorganic composites on the thermal degradation of polymethylmetacrylate (PMMA), Postgraduate, M.KARABULUT(Student), 2011

KAYRAN İŞÇİ C., HACALOĞLU J., The effect of inorganic composites on the thermal degradation of Poly(methylmetacrylate) (PMMA), Postgraduate, M.Karabulut(Student), 2011

TOPPARE L. K., HACALOĞLU J., Electrochemical polymerization of trihaloalkane monomers to form branched C-backbone polymers, Doctorate, Y.NUR(Student), 2011

HACALOĞLU J., Investigation of thermal characteristics of naphthoxazines and polynaphthoxazines via pyrolysis mass spectrometry, Postgraduate, Z.Koyuncu(Student), 2009

HACALOĞLU J., Investigation of thermal characteristics of naphthoxazines and polynaphthoxazines via direct pyrolysis mass spectrometry, Postgraduate, Z.KOYUNCU(Student), 2009

KAYRAN İŞÇİ C., HACALOĞLU J., Thermal characterization of phenol and bisphenol a based polybenzoxazines, Postgraduate, S.BAGHERİFAM(Student), 2009

HACALOĞLU J., Thermal characterization of phenol and bisphenol-A based polybenzoxazines, Postgraduate, S.Bagherifam(Student), 2009

HACALOĞLU J., KAYRAN İŞÇİ C., Nano structural metal composites: Synthesis, structural and thermal characterization, Postgraduate, T.ORHAN(Student), 2009

KAYRAN İŞÇİ C., HACALOĞLU J., Thermal characterization of homopolymers, copolymers and metal functional copolymers of vinylpyridines, Postgraduate, A.ELMACI(Student), 2008

HACALOĞLU J., Structural and thermal characterization of polymers via pyrolysis mass spectrometry, Postgraduate, E.ARGİN(Student), 2005

HACALOĞLU J., Pyrolysis mass spectrometric analysis of copolymer of polyacrylonitrile and polythiophene, Postgraduate, G.OĞUZ(Student), 2004

TOPPARE L. K., HACALOĞLU J., Characterization of conducting polymers of ester linkage containing thiophene derivatives via mass spectroscopy, Postgraduate, E.ASLAN(Student), 2004

TOPPARE L. K., HACALOĞLU J., Synthesis of conducting copolymer of succinic acid bis-(pyrrolyl-phenyl) ester with thiophene, Postgraduate, M.ERTAŞ(Student), 2003

HACALOĞLU J., Pyrolysis mass spectrometric analysis of polythiophene and poly (3-methylthiophene), Postgraduate, F.TUBA(Student), 2003

TOPPARE L. K., HACALOĞLU J., Synthesis of blocks copolymers of (S)-2-methylbutyl 2-(3-thienyl) acetate and its characterization via pyrolysis mass spectrometry, Postgraduate, A.LEVENT(Student), 2002

HACALOĞLU J., Pyrolysis mass spectrometry analysis of thiophene capped block copolymers of pyrrole, Postgraduate, İ.LATHAR(Student), 2001

TOPPARE L. K., HACALOĞLU J., Structural investigation of conducting polymer graft of pyrrole via mass spectrometry, Postgraduate, T.UYAR(Student), 2000

HACALOĞLU J., Thermal characteristics of rocket propellants, Postgraduate, H.Fazhoğlu(Student), 2000

HACALOĞLU J., Rapid pyrolysis and its application in thermal analysis of polymers, Postgraduate, T.ERSEN(Student), 1996

HACALOĞLU J., Rapid pyrolysis and its applications internal analysis of polymers, Postgraduate, T.Ersen(Student), 1996

HACALOĞLU J., Direct pyrolysis of some polymers using mass spectrometry, Postgraduate, M.Mousa(Student), 1993

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Preparation and characterization of poly(lactic acid) composites involving aromatic diboronic acid and organically modified montmorillonite**
Akar A. O., HACALOĞLU J.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.143, no.4, pp.3117-3126, 2021 (SCI-Expanded)
- II. **The effect of 3-hydroxyphenylboronic acid on thermal characteristics of polybenzoxazine based on phenol and 4-aminomethylbenzoate**
Ipek H., HACALOĞLU J.
JOURNAL OF POLYMER RESEARCH, vol.27, no.8, 2020 (SCI-Expanded)
- III. **Poly(methyl methacrylate) nanocomposites involving aromatic diboronic acid**
Goktas M., Hacaloğlu J.
Polymer Bulletin, vol.76, no.12, pp.6231-6243, 2019 (SCI-Expanded)
- IV. **Synthesis and analysis of thermal characteristics of polybenzoxazine based on phenol and 3-Amino phenyl boronic acid**
İPEK H., HACALOĞLU J.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.57, no.15, pp.1711-1716, 2019 (SCI-Expanded)
- V. **The effect of aromatic diboronic acid on characteristics of polybenzoxazine based on phenol and 4-aminomethylbenzoate**
İPEK H., HACALOĞLU J.
JOURNAL OF POLYMER RESEARCH, vol.25, no.12, 2018 (SCI-Expanded)
- VI. **Effects of aromatic diboronic acid on thermal characteristics of polybenzoxazines based on phenol and aniline**
Telli A. H., HACALOĞLU J.
EUROPEAN POLYMER JOURNAL, vol.108, pp.182-190, 2018 (SCI-Expanded)
- VII. **Characterization of polymer/nanoclay composites via direct pyrolysis mass spectrometry**
Ozdemir E., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.134, pp.395-404, 2018 (SCI-Expanded)
- VIII. **Thermal degradation of Polylactide/Poly(ethylene glycol) fibers and composite fibers involving organoclay**
Ozdemir E., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.129, pp.181-188, 2018 (SCI-Expanded)
- IX. **Poly(methyl methacrylate) organoclay composites; interactions of organic modifier with the polymer effecting thermal degradation behavior**
Ozdemir E., HACALOĞLU J.
EUROPEAN POLYMER JOURNAL, vol.95, pp.474-481, 2017 (SCI-Expanded)
- X. **Characterizations of PLA-PEG blends involving organically modified montmorillonite**
Ozdemir E., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.127, pp.343-349, 2017 (SCI-Expanded)
- XI. **Polylactide/organically modified montmorillonite composite fibers**
Ozdemir E., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.124, pp.186-194, 2017 (SCI-Expanded)
- XII. **Polylactide/organically modified montmorillonite composites; effects of organic modifier on thermal characteristics**
Ozdemir E., Lekesiz T. O., Hacaloğlu J.
POLYMER DEGRADATION AND STABILITY, vol.134, pp.87-96, 2016 (SCI-Expanded)
- XIII. **Characterization of polylactide/poly(ethylene glycol) blends via direct pyrolysis mass spectrometry**
Ozdemir E., Tincer T., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.122, pp.315-322, 2016 (SCI-Expanded)
- XIV. **Thermal degradation of polystyrene composites. Part II. The effect of nanoclay**

- KAYA H., KAYNAK C., HACALOĞLU J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.120, pp.194-199, 2016 (SCI-Expanded)
- XV. **Effects of curing on structure and thermal characteristics of polybenzoxazine based on p-nitroaniline**
Lekesiz T. O., HACALOĞLU J.
POLYMER DEGRADATION AND STABILITY, vol.129, pp.363-373, 2016 (SCI-Expanded)
- XVI. **Effects of nanoparticles on thermal degradation of polylactide/aluminium diethylphosphinate composites**
Kaya H., Özdemir E., Kaynak C., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.118, pp.115-122, 2016 (SCI-Expanded)
- XVII. **Thermal Degradation of Polylactide and Its Electrospun Fiber**
Ozdemir E., Hacaloğlu J.
FIBERS AND POLYMERS, vol.17, pp.66-73, 2016 (SCI-Expanded)
- XVIII. **Preparation and thermal characterization of poly(2-vinylpyridine) copolymers coordinated to Cr nanoparticles**
Lekesiz T. O., Kayran C., HACALOĞLU J.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.26, no.6, pp.555-560, 2015 (SCI-Expanded)
- XIX. **Pyrolysis of poly(methy methacrylate) copolymers**
Ozlem-Gundogdu S., Gurel E. A., HACALOĞLU J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.113, pp.529-538, 2015 (SCI-Expanded)
- XX. **Thermal degradation of polylactide/aluminium diethylphosphinate**
Kaya H., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.110, pp.155-162, 2014 (SCI-Expanded)
- XXI. **Metal ion functional polybenzoxazine based on phenol and 2-aminopyridine**
Lekesiz T. O., HACALOĞLU J.
POLYMER, vol.55, no.16, pp.3533-3542, 2014 (SCI-Expanded)
- XXII. **Preparation and characterization of polystyrene-b-poly(2-vinylpyridine) coordinated to metal or metal ion nanoparticles**
Lekesiz T. O., Kaleli K., UYAR T., KAYRAN İŞÇİ C., HACALOĞLU J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.106, pp.81-85, 2014 (SCI-Expanded)
- XXIII. **Thermal degradation of polystyrene composites. Part I. The effect of brominated polyepoxy and antimony oxide**
Kaya H., HACALOĞLU J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.105, pp.301-308, 2014 (SCI-Expanded)
- XXIV. **Direct Pyrolysis - Mass Spectrometry Analysis of Thermal Degradation of Thio-Click-Modified Poly(2-oxazoline)**
Atilkan N., Schlaad H., NUR Y., HACALOĞLU J.
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.215, no.2, pp.148-152, 2014 (SCI-Expanded)
- XXV. **Thermal degradation of poly(n-butyl methacrylate), poly(n-butyl acrylate) and poly(t-butyl acrylate)**
Ozlem S., HACALOĞLU J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.104, pp.161-169, 2013 (SCI-Expanded)
- XXVI. **Direct pyrolysis mass spectrometry analyses of polyamide-6 containing melamine and boron compounds**
Isbasar C., Bayramli E., HACALOĞLU J.
POLYMER COMPOSITES, vol.34, no.8, pp.1389-1395, 2013 (SCI-Expanded)
- XXVII. **Thermal degradation of poly(isobornyl acrylate) and its copolymer with poly(methyl methacrylate) via pyrolysis mass spectrometry**
Ozlem S., Aslan-Guerel E., Rossi R. M., HACALOĞLU J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.100, pp.17-25, 2013 (SCI-Expanded)
- XXVIII. **Synthesis, Characterization, and Thermal Properties of Alkyl-Functional Naphthoxazines**

- UYAR T., HACALOĞLU J., Ishida H.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.127, no.4, pp.3114-3123, 2013 (SCI-Expanded)
- XXIX. **Direct pyrolysis mass spectrometry to investigate the effects of dopants on characteristics of polypyrrole and its copolymers**
Guerel E. A., Toppare L., HACALOĞLU J.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.111, no.2, pp.1133-1138, 2013 (SCI-Expanded)
- XXX. **Thermal degradation of poly(2-vinylpyridine) copolymers**
Orhan T., HACALOĞLU J.
POLYMER DEGRADATION AND STABILITY, vol.98, no.1, pp.356-360, 2013 (SCI-Expanded)
- XXXI. **Investigation of polymerization of benzoxazines and thermal degradation characteristics of polybenzoxazines via direct pyrolysis mass spectrometry**
Fam S. B., Uyar T., Ishida H., HACALOĞLU J.
Polymer International, vol.61, no.10, pp.1532-1541, 2012 (SCI-Expanded)
- XXXII. **Synthesis and pyrolysis of ABC type miktoarm star copolymers with polystyrene, poly(lactic acid) and poly(ethylene glycol) arms**
Ozlem S., Iskin B., Yilmaz G., Kukut M., HACALOĞLU J., Yagci Y.
European Polymer Journal, vol.48, no.10, pp.1755-1767, 2012 (SCI-Expanded)
- XXXIII. **Direct insertion mass spectrometric analysis of thermal degradation of poly(2-alkyl-2-oxazoline)**
Atilkan N., Nur Y., HACALOĞLU J., Schlaad H.
Macromolecular Chemistry and Physics, vol.213, no.9, pp.945-951, 2012 (SCI-Expanded)
- XXXIV. **Direct insertion probe mass spectrometry of polymers**
HACALOĞLU J.
Advances in Polymer Science, vol.248, pp.69-103, 2012 (SCI-Expanded)
- XXXV. **Thermal degradation of organophosphorus flame-retardant poly(methyl methacrylate) nanocomposites containing nanoclay and carbon nanotubes**
ORHAN T., Isitman N. A., HACALOĞLU J., KAYNAK C.
POLYMER DEGRADATION AND STABILITY, vol.97, no.3, pp.273-280, 2012 (SCI-Expanded)
- XXXVI. **Investigation of thermal degradation characteristics of polyamide-6 containing melamine or melamine cyanurate via direct pyrolysis mass spectrometry**
Isbasar C., HACALOĞLU J.
Journal of Analytical and Applied Pyrolysis, vol.98, pp.221-230, 2012 (SCI-Expanded)
- XXXVII. **Thermal degradation characteristics of polysulfones with benzoxazine end groups**
Orhan T., Ates S., Hacaloğlu J., Yagci Y.
Journal of Analytical and Applied Pyrolysis, vol.94, pp.146-152, 2012 (SCI-Expanded)
- XXXVIII. **Thermal degradation mechanisms of aluminium phosphinate, melamine polyphosphate and zinc borate in poly(methyl methacrylate)**
Orhan T., Isitman N. A., Hacaloğlu J., Kaynak C.
POLYMER DEGRADATION AND STABILITY, vol.96, pp.1780-1787, 2011 (SCI-Expanded)
- XXXIX. **Electrospun polyethylene oxide (PEO) nanofibers containing cyclodextrin inclusion complex**
Uyar T., HACALOĞLU J., Besenbacher F.
Journal of Nanoscience and Nanotechnology, vol.11, no.5, pp.3949-3958, 2011 (SCI-Expanded)
- XL. **Characterization of β -cyclodextrin modified SiO₂**
Nielsen R., Kingshott P., Uyar T., HACALOĞLU J., Larsen K. L.
Surface and Interface Analysis, vol.43, no.5, pp.884-892, 2011 (SCI-Expanded)
- XLI. **Thermal degradation of polysiloxane and polyetherester containing benzoxazine moieties in the main chain**
Bagherifam S., Kışkan B., Aydoğan B., Yagci Y., HACALOĞLU J.
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- XLII. **Cyclodextrin functionalized poly(methyl methacrylate) (PMMA) electrospun nanofibers for organic vapors waste treatment**
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Journal of Membrane Science, vol.365, pp.409-417, 2010 (SCI-Expanded)

- XLIII. **Functional electrospun polystyrene nanofibers incorporating α -, β -, and γ -cyclodextrins: Comparison of molecular filter performance**
Uyar T., Havelund R., Hacaloğlu J., Besenbacher F., Kingshott P.
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- XLIV. **The use of pyrolysis mass spectrometry to investigate polymerization and degradation processes of methyl amine-based benzoxazine**
Bagherifam S., Uyar T., Ishida H., Hacaloğlu J.
Polymer Testing, vol.29, pp.520-526, 2010 (SCI-Expanded)
- XLV. **Thermal decomposition of polystyrene-b-poly(2-vinylpyridine) coordinated to co nanoparticles**
Elmaci A., Hacaloğlu J., Kayran C., Sakellariou G., Hadjichristidis N.
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- XLVI. **High temperature pyrolysis of poly(phenylene vinylene)s with poly(ϵ -caprolactone) or polystyrene side chains**
Nur Y., Çolak D., Cianga I., Yagci Y., Hacaloğlu J.
Journal of Thermal Analysis and Calorimetry, vol.98, pp.527-532, 2009 (SCI-Expanded)
- XLVII. **The characterization of polyaniline and polypyrrole composites by pyrolysis mass spectrometry**
HACALOĞLU J., Tezal F., Kücükavuz Z.
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- XLVIII. **The formation and characterization of cyclodextrin functionalized polystyrene nanofibers produced by electrospinning**
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- XLIX. **Electrospinning of functional poly(methyl methacrylate) nanofibers containing cyclodextrin-menthol inclusion complexes**
Uyar T., Nur Y., HACALOĞLU J., Besenbacher F.
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- L. **Molecular filters based on cyclodextrin functionalized electrospun fibers**
Uyar T., Havelund R., Nur Y., HACALOĞLU J., Besenbacher F., Kingshott P.
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- LI. **Thermal degradation of poly(vinylpyridine)s**
Elmaci A., HACALOĞLU J.
Polymer Degradation and Stability, vol.94, no.4, pp.738-743, 2009 (SCI-Expanded)
- LII. **Electrospun polystyrene fibers containing high temperature stable volatile fragrance/flavor facilitated by cyclodextrin inclusion complexes**
Uyar T., HACALOĞLU J., Besenbacher F.
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- LIII. **Polymerisation and degradation of an aromatic amine-based naphthoxazine**
Uyar T., Koyuncu Z., Ishida H., HACALOĞLU J.
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- LIV. **Direct pyrolysis mass spectrometry studies on thermal degradation characteristics of poly(phenylene vinylene) with well-defined PSt side chains**
Nur Y., Çolak D., Cianga I., Yagci Y., HACALOĞLU J.
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- LV. **Thermal analysis of a new thiophene derivative and its copolymer**
Aslan E., TOPPARE L. K., HACALOĞLU J.
Journal of Thermal Analysis and Calorimetry, vol.92, no.3, pp.839-843, 2008 (SCI-Expanded)
- LVI. **Pyrolysis of poly(phenylene vinylene)s with polycaprolactone side chains**
Nur Y., Çolak D., Cianga I., Yagci Y., HACALOĞLU J.
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- LVII. **Characterization of polyaniline via pyrolysis mass spectrometry**

- HACALOĞLU J., Argin E., Kücükavuz Z.
Journal of Applied Polymer Science, vol.108, no.1, pp.400-405, 2008 (SCI-Expanded)
- LVIII. Characterization of conducting copolymer of pyrrole via pyrolysis mass spectrometry**
Levent A., Hacaloğlu J., Toppare L.
Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, vol.45, pp.201-204, 2008 (SCI-Expanded)
- LIX. A pyrolysis mass spectrometry study of polythiophene copolymers**
Aslan E., HACALOĞLU J., Toppare L.
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- LX. Investigation of the effect of dopant on characteristics of poly(3-methyl thiophene) via pyrolysis mass spectrometry**
Gözet T., Önal A. M., Hacaloğlu J.
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- LXI. Pyrolysis mass spectrometry analysis of polycarbonate/poly(methyl methacrylate)/poly(vinyl acetate) ternary blends**
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- LXII. Thermal degradation of poly(p-phenylene-graft-ε-caprolactone) copolymer**
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- LXIII. Pyrolysis of polyphenylenes with PCL or/and PSt side chains**
Nur Y., Yurteri S., Cianga I., Yagci Y., HACALOĞLU J.
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- LXIV. Thermal degradation of polycarbonate, poly(vinyl acetate) and their blends**
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- LXV. Thermal degradation processes of poly(carbonate) and poly(methyl methacrylate) in blends coalesced either from their common inclusion compound formed with γ-cyclodextrin or precipitated from their common solution**
Uyar T., Oguz G., Tonelli A. E., HACALOĞLU J.
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- LXVI. Investigation of chlorinated poly(propylene oxide) and polyepichlorohydrin by direct pyrolysis mass spectrometry**
Uyar T., Oztürk E., Alyürük K., HACALOĞLU J.
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- LXVII. Investigation of copolymers of thiophene-functionalized polystyrene with pyrrole by pyrolysis mass spectrometry**
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Journal of Macromolecular Science - Pure and Applied Chemistry, vol.43, pp.655-665, 2006 (SCI-Expanded)
- LXVIII. The solid channel structure inclusion complex formed between guest styrene and host γ-cyclodextrin**
Uyar T., El-Shafei A., Wang X., HACALOĞLU J., Tonelli A. E.
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- LXIX. Pyrolysis mass spectrometry analysis of poly(vinyl acetate), poly(methyl methacrylate) and their blend coalesced from inclusion compounds formed with γ-cyclodextrin**
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- LXX. Characterization of conducting copolymer of thiophene via pyrolysis mass spectrometry**
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- LXXI. Investigation of the effect of substituent on the growth of polymer for 3-substituted polythiophenes**

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- LXXII. **Pyrolysis mass spectrometry analysis of electrochemically grafted polyacrylonitrile with thiophene**
Oguz G., HACALOĞLU J., ÖNAL A. M.
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