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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, Post Graduate, 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, Post Graduate, M.Göktaş(Student), 2016

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

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

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

TİNCER İ. T. , HACALOĞLU J., The effects of type and amount of organically modified montmorillonites on thermal degradation behavior and mechanical properties of poly(lactic acid), Post Graduate, 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, Post Graduate, N.Atıkan(Student), 2011

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

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

KAYRAN İŞÇİ C., HACALOĞLU J., The effect of inorganic composites on the thermal degradation of Poly(methylmetacrylate) (PMMA), Post Graduate, 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, Post Graduate, Z.Koyuncu(Student), 2009

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

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

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

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

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

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

HACALOĞLU J., Pyrolysis mass spectrometric analysis of copolymer of polyacrylonitrile and polythiophene, Post Graduate, G.ÖĞÜZ(Student), 2004

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

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

HACALOĞLU J., Pyrolysis mass spectrometric analysis of polythiophene and poly (3-methylthiophene), Post Graduate, 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, Post Graduate, A.LEVENT(Student), 2002

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

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

HACALOĞLU J., Thermal characteristics of rocket propellants, Post Graduate, H.Fazlıoğlu(Student), 2000

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

HACALOĞLU J., Rapid pyrolysis and its applications intermal analysis of polymers, Post Graduate, T.Ersen(Student), 1996

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

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

- 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 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI)
- III. **Poly(methyl methacrylate) nanocomposites involving aromatic diboronic acid**
Goktas M., Hacaloğlu J.
Polymer Bulletin, vol.76, no.12, pp.6231-6243, 2019 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- X. **Characterizations of PLA-PEG blends involving organically modified montmorillonite**
Ozdemir E., Hacaloğlu J.
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- XI. **Polylactide/organically modified montmorillonite composite fibers**
Ozdemir E., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.124, pp.186-194, 2017 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XIII. **Characterization of polylactide/poly(ethylene glycol) blends via direct pyrolysis mass spectrometry**
Ozdemir E., Tincer T., Hacaloğlu J.
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- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XVII. **Thermal Degradation of Polylactide and Its Electrospun Fiber**
Ozdemir E., Hacaloğlu J.
FIBERS AND POLYMERS, vol.17, pp.66-73, 2016 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XIX. **Pyrolysis of poly(methyl methacrylate) copolymers**
Ozlem-Gundogdu S., Gurel E. A. , HACALOĞLU J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.113, pp.529-538, 2015 (Journal Indexed in SCI)
- XX. **Thermal degradation of polylactide/aluminium diethylphosphinate**
Kaya H., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.110, pp.155-162, 2014 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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.
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- 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 (Journal Indexed in SCI)
- XXIX. **Direct pyrolysis mass spectrometry to investigate the effects of dopants on characteristics of polypyrrole and its copolymers**

Guereel E. A. , Toppare L., HACALOĞLU J.

JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.111, no.2, pp.1133-1138, 2013 (Journal Indexed in SCI)

- XXX. **Thermal degradation of poly(2-vinylpyridine) copolymers**
Orhan T., HACALOĞLU J.
POLYMER DEGRADATION AND STABILITY, vol.98, no.1, pp.356-360, 2013 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XXXIV. **Direct insertion probe mass spectrometry of polymers**
HACALOĞLU J.
Advances in Polymer Science, vol.248, pp.69-103, 2012 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- 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**
Uyar T., Havelund R., Nur Y., Balan A., HACALOĞLU J., Toppare L., Besenbacher F., Kingshott P.
Journal of Membrane Science, vol.365, pp.409-417, 2010 (Journal Indexed in SCI)
- 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.
ACS Nano, vol.4, pp.5121-5130, 2010 (Journal Indexed in SCI)
- 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.
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- XLV. **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.
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- XLVI. **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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- 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**
Uyar T., Havelund R., HACALOĞLU J., Zhou X., Besenbacher F., Kingshott P.
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- XLIX. **Electrospinning of functional poly(methyl methacrylate) nanofibers containing cyclodextrin-menthol inclusion complexes**
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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 (Journal Indexed in SCI)
- 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**
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- LV. **Thermal analysis of a new thiophene derivative and its copolymer**
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Journal of Thermal Analysis and Calorimetry, vol.92, no.3, pp.839-843, 2008 (Journal Indexed in SCI)
- LVI. **Pyrolysis of poly(phenylene vinylene)s with polycaprolactone side chains**
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- LVII. **Characterization of polyaniline via pyrolysis mass spectrometry**
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Journal of Applied Polymer Science, vol.108, no.1, pp.400-405, 2008 (Journal Indexed in SCI)
- LVIII. **Characterization of conducting copolymer of pyrrole via pyrolysis mass spectrometry**

Levent A., Hacaloğlu J., Toppare L.

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- LIX. **A pyrolysis mass spectrometry study of polythiophene copolymers**
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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. **Thermal degradation of poly(p-phenylene-graft-ε-caprolactone) copolymer**
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- LXII. **Pyrolysis mass spectrometry analysis of polycarbonate/poly(methyl methacrylate)/poly(vinyl acetate) ternary blends**
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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**
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- LXVII. **Investigation of copolymers of thiophene-functionalized polystyrene with pyrrole by pyrolysis mass spectrometry**
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- LXVIII. **The solid channel structure inclusion complex formed between guest styrene and host γ-cyclodextrin**
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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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- LXXI. **Investigation of the effect of substituent on the growth of polymer for 3-substituted polythiophenes via pyrolysis mass spectrometry**
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- LXXII. **Pyrolysis mass spectrometry analysis of electrochemically grafted polyacrylonitrile with thiophene**
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- LXXIII. **Intimate blending of binary polymer systems from their common cyclodextrin inclusion compounds**
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