CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

CURRICULUM VITAE

Name:	**Marián GOMEZ-FATOU RODRIGUEZ**
Current position :	**Research Professor** at Department of Polymer Physics, Elastomers and Energy Applications http://physics.ictp.csic.es/ http://www.ictp.csic.es/ICTP2/es/node/282 Institute of Science and Technology of Polymers (ICTP-CSIC) CSIC (Spanish National Research Council)
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EDUCATIONAL QUALIFICATIONS

1984 **Ph.D degree in PHYSICAL CHEMISTRY** Complutense University of Madrid.

1981 **M.Phil degree in PHYSICAL CHEMISTRY** Complutense University of Madrid.

1981 **Bachelor of Science degree in Chemistry** Complutense University of Madrid.

PREVIOUS WORK EXPERIENCE

- **RESEARCH PROFESSOR** (2008 to date, **CSIC Member of the Scientific Staff**)
  Department of Polymer Physics, Elastomers and Energy Applications,
  Institute of Science and Technology of Polymers, C.S.I.C

- **MEMBER OF SCIENTIFIC ADVISORY COMMITTEE (SAC) OF SCIENCE EUROPE** (http://www.scienceeurope.org/) (January 2016 to December 2018).

- **MEMBER OF THE PHYSICAL, CHEMICAL AND MATHEMATICAL SCIENCES COMMITTEE (PHYCHEMA) OF SCIENCE EUROPE** (January 2015 to December 2015).

- **DEPUTY VICE PRESIDENT FOR EUROPEAN AFFAIRS CSIC** (October 2008 to February 2012)

- **HEAD OF THE PHYSICS AND ENGINEERING DEPARTMENT** (March 2006 to September 2008)
  Institute of Science and Technology of Polymers, C.S.I.C.,

- **SENIOR RESEARCH SCIENTIST** (March 1997 to 2007, **CSIC Member of the Scientific Staff**)
  Department of Polymer Physics and Engineering,
  Institute of Science and Technology of Polymers, C.S.I.C.,

- **RESEARCH SCIENTIST** (February 1986 to February 1997, **CSIC Member of the Scientific Staff**)
  Department of Polymer Physics and Engineering,
  Institute of Science and Technology of Polymers, C.S.I.C.,

- **RESEARCH SCIENTIST VISITOR** (July 2007- September 2007)
  Center for Nanoscale Science and Engineering
  University of California Riverside
  Riverside, California, USA.

- **RESEARCH SCIENTIST VISITOR** (July 2003- August 2003)
  College of Textiles
  North Carolina State University
  Raleigh, North Carolina, USA.

- **RESEARCH SCIENTIST VISITOR** (March 1990-June 1990 and October 1989-December 1989)
  Materials Division: Department of Polymer Physics
  AT&T Bell Laboratories
  Murray Hill, New Jersey, USA.

- **RESEARCH SCIENTIST VISITOR** (May 1986-May 1988)
  Materials Division: Department of Polymer Physics
  AT&T Bell Laboratories
  Murray Hill, New Jersey, USA.

- **POSTDOCTORAL RESEARCH** (March 1984 - January 1986)
  Department of Polymer Physics and Engineering,
  Institute of Science and Technology of Polymers, C.S.I.C.

  POSTDOCTORAL RESEARCH: European Molecular Biology Organization (EMBO) scholarship (June 1984 - August 1984)
  H.H.Wills Physics Laboratories
  University of Bristol, UK

- **GRADUATE RESEARCH** (October 1981 - February 1984)
  Department of Crystallography
  Institute of Physical-Chemistry, C.S.I.C.

- **UNDERGRADUATE RESEARCH** (September 1980 - September 1981)
  Department of Polymer Physics and Engineering,
  Institute of Science and Technology of Polymers, C.S.I.C.,

RESEARCH INTERESTS

During the last 15 years my research interest has been mainly focused on the development of advanced materials based on polymer nanocomposites with graphene, carbon nanotubes and inorganic fullerenes and study of the correlation between structure, morphology and solid state properties of these materials for structural, bio, sensors or textiles applications among others. My current interest is directed towards the design of more sustainable advanced polymeric materials especially for their application in packaging.

RESEARCH PROJECTS

I have lead and participated in more than **55** research projects (**17** as PI) financed through the Spanish Research and Development Plan and the local Government and in collaboration with

European, Canadian and US groups within the framework of bilateral agreements or funded by the European Union, as well as in **26** industrial research contracts with major Spanish companies in the polymer area,

Some of the most recent projects are:

"The transition of Multilayer/multipolymer packaging into more sustainable multilayer/single polymer products for the food and pharma sectors through the development of innovative functional adhesives".
H2020-BBI-JTI-2018 Proposal 837715 MANDALA.
PI ICTP-CSIC: Dr. Horacio Salavagione
Participants: 12 Institutions and companies.
Financed through BBI JTI Program EU.
2019-2023

"Sustainable polymeric nanocomposites for multifunctional materials".
PID2020-117573GB-I00
PI: Peter Shuttleworth / Horacio Salavagione
Financed through the Spanish Research, Development and Innovation Plan 2017-2020.
2021-2024

"Advanced functional polymeric fibers and fabrics incorporating graphene and related materials and bio-sourced mesoporous carbon structures". MAT2017-88382-P
PI: Horacio Salavagione
Financed through the Spanish Research, Development and Innovation Plan 2013-2016 (Materials Program).
2018-2021

"Advanced multifunctional graphene-based hierarchical polymer nanocomposites: Development, morphology and solid-state properties".MAT2013-47898-C2-2-R
PI ICTP-CSIC Marián Gómez-Fatou/Horacio Salavagione
Financed through the Spanish Research, Development and Innovation Plan 2013-2016 (Materials Program)
2014-2017

"Multifunctional, light weight, single-walled carbon nanotube-based carbon fibre nanocomposites for transportation"
National Research Council of Canada (NRC)-CSIC joint projects
PIs: Prof. B. Simard (Institute of Molecular Sciences-NRC), Prof. A. Jonhston (Institute for Aerospace Research-NRC), Prof. T. Martínez (ICB-CSIC) and Prof. Marián Gómez-Fatou (ICTP-CSIC).
Nov 2007- Dic 2010

"Nanocomposite enhancement of naturally derived mesoporous carbons" (i-LINK-0636)
CSIC (i-LINK international program). Joint project with University of York (UK).
PI-CSIC: G. Ellis
2013 – 2014

"Biodegradable polymer blend nanocomposites for ecological applications" (I-20110152 EC)
PI CSIC: Dr. M. Naffakh
Synchroton facility (DESY,HASYLAB, Hamburg, Germany).
2011 – 2012

"Infrastructure funding in the life sciences" (C-ERANET/0318) ERA-Instrument
FP7-INFRASTRUCTURES -2007-1. 7th Framework program EU. CAPACITIES (INFRASTRUCTURE-2007-3.1 ERA-NET).
PI – CSIC: Marián Gómez Fatou

2008-2011

"Fullerene-based opportunities for robust engineering:making optimised surfaces for tribology". FOREMOST. NMP3-CT-2005-515840.
Integrated Project (IP) 6th Framework Program EU.
Coordinator: Dr. Alberto Alberdi, TEKNIKER
PI CSIC: Prof. J.M.Albella/Dr I. Jiménez
ICTP-CSIC: "Incorporation of inorganic fullerene-like materials (IFLM) into thermoplastic polymers".
2006-2010

PATENTS (= 5)

I am co-author of 5 patents related with the development of advanced polymeric materials.

SCIENTIFIC PUBLICATIONS (= 172)

I have published **172** publications in international journals indexed in SCI (h-index = **39**), with **5.730** citations and related most of them with polymer science, nanotechnology and nanomaterials. I have been editor of **1** book related with the application of scattering and diffraction techniques to Materials and Life Science and have co-authored **18** chapters of books. I have 50 publications in Spanish journals and NON-SCI journals.

I have presented more than **140** papers to International conferences and Workshops.

Selection of most recent publications:

H.J. Salavagione, M.A. Gómez, G. Martínez
Polymeric modification of graphene through esterification of graphite oxide and poly (vinyl alcohol).
Macromolecules 42(17), 6331-6334 (2009)

A.M. Díez-Pascual, G. Martinez, M.A. Gómez, M.T. Martínez.
Novel Nanocomposites Reinforced with Hydroxylated Poly(ether ether ketone)-grafted Carbon Nanotubes.
J. Materials Chemistry 20, 8285-8296 (2010)

M. Naffakh, M. Remskar, C. Marco, M.A. Gómez-Fatou, I. Jiménez.
Towards a new generation of polymer nanocomposites based on inorganic nanotubes.
Journal of Material Chemistry 21, 3574-3578 (2011)

J.M. González-Domínguez, Y. Martínez-Rubí, A.M. Díez-Pascual, A. Ansón-Casaos, M.A. Gómez-Fatou, B. Simard, M.T. Martínez
Reactive fillers based on SWCNTs functionalized with matrix-based moieties for the production of epoxy composites with superior and tuneable properties
Nanotechnology 23(28), 285702-285716 (2012)

M. Naffakh, A.M. Díez-Pascual, C, Marco, G. Ellis, M.A. Gómez-Fatou.
Opportunities and challenges in the use of inorganic fullerene-like nanoparticles to produce advanced polymer nanocomposites
Progress in Polymer Science 38, 1163-1231 (2013).

A.M. Díez-Pascual, M. Naffakh, C, Marco, M.A. Gómez-Fatou, G. Ellis.
Multiscale fiber-reinforced thermoplastic composites incorporating carbon nanotubes: A review Current Opinion in Solid State & Materials Science 18, 62-80 (2014).

H. Salavagione, A.M. Díez-Pascual, E. Lázaro, S. Vera, M.A. Gómez-Fatou.
Chemical sensors based on polymer composites with carbon nanotubes and graphene. The role of the polymer.
J. Materials Chemistry A 2 (35), 14289- 14328 (2014).

A. Flores, H. Salavagione, F. Ania, G. Martínez, G. Ellis, M.A. Gómez-Fatou.
The overlooked role of reduced graphene oxide in the reinforcement of hydrophilic polymers.
J. Materials Chemistry C 3, 1177-1180 (2015).

H. Salavagione, S. Quiles-Díaz, P. Enrique-Jimenez, G. Martínez, F. Ania, A. Flores, M.A. Gómez-Fatou
Development of Advanced Elastomeric Conductive Nanocomposites by Selective Chemical Affinity of Modified Graphene
Macromolecules 49,4948-4956 (2016).

S. Quiles-Díaz, P. Enrique-Jimenez, D. G. Papageorgiou, F. Ania, A. Flores, I. A. Kinloch, M.A. Gómez-Fatou, R. J. Young, H. J. Salavagione.
Influence of the chemical functionalization of graphene on the properties of polypropylene-based nanocomposites
Composites: Part A 100,31-39 (2017).

A. Martínez-Gómez, S. Quiles-Díaz, P. Enrique-Jimenez, A. Flores, F. Ania, M. A. Gómez-Fatou, H. J. Salavagione
Searching for effective compatibilizing agents for the preparation of poly(ether ether ketone)/graphene nanocomposites with enhanced properties.
Composites: Part A 113, 180-188 (2018).

S. Quiles-Díaz, Y. Martínez-Rubí, J. Guan, K.S. Kim, M. Couillard, H. J. Salavagione, M. A. Gómez-Fatou, B. Simard
Enhanced Thermal Conductivity in Polymer Nancomposites via Covalent functionalization of boron nitride nanotubes with short polyethylene chains for heat Transfer Applications.
ACS Appl. Nano Mater. 2, 440- 451 (2019)

H. J. Salavagione, P. S. Shuttleworth, J. P. Fernandez-Blazquez, G. J. Ellis, M. A. Gómez-Fatou
Scalable graphene-based nanocomposites coatings for flexible and washable conductive textiles
Carbon 167, 495-503 (2020).

BOOK EDITOR

T.A. Ezquerra, M.C. García-Gutierrez, A. Nogales, M. A. Gómez (Editors)
"Applications of Synchrotron Light to Scattering and Diffraction in Materials and Life Sciences"
Lectures Notes in Physics, vol 776, 2009 (1-318). Springer. ISBN: 978-3-540-95967-0

RECENT BOOK CHAPTERS

A. M. Díez-Pascual, J. M. González-Domínguez, Y. Martínez-Rubi, M. Naffakh, A. Ansón, M. T. Martínez, B. Simard, and M. A. Gómez.
Polymer Nanotube Nanocomposites: Synthesis, Properties, and Applications. "Synthesis and Properties of PEEK/Carbon Nanotube Nanocomposites".
Editorial: Wiley-Scrivener. V. Mittal Editor, chapter 10, 281-313 (2010). ISBN: 978-0-470-62592-7

M. A. Hunt, S. Villar-Rodil, M. A. Gomez-Fatou, I. D.Shin, F. C. Schilling, and A. E Tonelli.
"NMR Spectroscopy of Polymers: Innovative Strategies for Complex Macromolecules: 13C-NMR Observed Conformations and Motions of Neat Liquid and Crystalline n-Hexatricontane

and as a Guest in the Narrow Channels of Its Inclusion Compound Formed with α-Cyclodextrin"
Editors: H.N. Cheng, T. Asakura, A. D. English
ACS Books, ACS Symposium Series: American Chemical Society, Washington CD, Chapter 16 pages 265-277, (2011)
ISBN13: 9780841226678

Diez-Pascual, Ana M; Naffakh, Mohammed; Gómez-Fatou, Marián.
Polymer Morphology
"Morphology of high-performance thermoplastic nanocomposites"
Vol. 1, Cap. 2 (2012) pág 41-77
Editors: Hongshun Yang.
Editorial: Nova Science Publishers, Inc., Hauppauge, New Jersey, USA

J. M. González-Domínguez, A. M. Díez-Pascual, A. Ansón-Casaos, M. A. Gómez-Fatou, M. T. Martínez.
Polymer Nanotube Nanocomposites: Synthesis, Properties, and Applications. 2nd Edition
"Functionalization strategies for single-walled carbon nanotubes integration into epoxy matrices".
Editorial: Wiley-Scrivener. V. Mittal Editor, chapter 2, 45-109 (2014). ISBN: 978-1-118-94592-6

Horacio J. Salavagione, Marián A. Gómez-Fatou, Gerardo Martínez, Carlos Marco, Gary J. Ellis
Chemical Functionalization of Carbon Nanomaterials. Chemistry and Applications
"Click Functionalization of Carbon Nanotubes and Graphene with Polymers".
Editorial: CRC Press. Vijay Kumar Thakur and Manju Kumari Thakur Editors., Chapter 16, 399-429 (2015). ISBN: 978-1-4822-5394-8

Horacio J. Salavagione, Susana Quiles-Díaz, Peter S Shuttleworth, Gary J Ellis, Marián A Gómez-Fatou
Encyclopedia of Polymer Science & Technology (4th Edition)
"Graphene Functionalization for Polymer Nanocomposites"
Editorial: John Wiley & Sons, Inc. (2020)
Print ISBN: 9781118633892 Online ISBN: 9780471440260

FULL LIST OF PUBLICATIONS

1
E.Pérez, M.A.Gómez, A.Bello, y J.G.Fatou
Solubility parameters in polyoxetanes: poly(oxetane), poly(3,3-dimethyl oxetane) and poly(3,3-diethyl oxetane)
J.Applied Polym. Sci., 27, 3721-3728b1992)

2
E.Pérez, M.A.Gómez, A.Bello y J.G.Fatou
Crystallization behaviour of polyoxetanes:poly(oxetane), poly(3,3-dimethyloxetane) and poly(3,3-diethyloxetane)
Colloid & Polymer Sci. 261, 571-576 (1983)

3
M.A.Gómez-Rodríguez, M.Martínez-Ripoll y S.García-Blanco.
Molecular and chiral structure of (6R,7S,10R,11S)-1-oxo-6 ,7 ,10 ,11 H-germacr-4-en-,12-olide, a ketone derivative
of gallicin.
Acta Cryst. Sect. C, C41, 1275-1277, 1985

4
A.G.González, A.Galindo, H.Mansilla, A.Gutierrez, J.A.Palenzuela, M.A.Gómez-Rodríguez, M.Martínez-Ripoll y S.García-Blanco.
Biomimetic synthesis of chapliatrin type compounds.
J.Org.Chem., 50(26), 5856-5858, 1985

5
M-A.Gómez-Rodríguez, M.Martínez-Ripoll y S.García-Blanco.

Molecular and chiral structure of (4R,6S,7S,11S)-5-oxo-4 ,6 ,7 ,11 H-germacran-1(10)-en-12,6 olide a derivative of
gallicin.
Acta Cryst. Sect. C, C42, 894-6, 1986
6
J.M.Pastor, J.Merino, M.A.Gómez y A.Bello.
Influence of the crystallinity on the Raman spectra of poly(3,3 dipropyloxetane).
J.Mol.Struct., 143, 187-190, 1986
7
M.A.Gómez, E.Peréz, A.Bello y J.G.Fatou.
X-ray diffraction study of oriented poly(3-ethyl, 3-methyl oxetane).
Polymer Communications, 27, 166-168, 1986
8
M.A.Gómez, J.G.Fatou, y A.Bello.
Crystallization kinetics of poly(3,3-diethyl oxetane).
Eur. Polym. J., 22(1), 43-47, 1986
9
M.A.Gómez, J.G.Fatou y A.Bello.
Spherulitic growth rates of poly(3,3-diethyloxetane).
Eur. Polym. J., 22(8), 661-664, 1986
10
M.A.Gómez, M.H.Cozine, F.C.Schilling, A.E.Tonelli, A.Bello y J.G.Fatou.
Solid-State 13C NMR study of poly(3,3-diethyl oxetane).
Macromolecules, 20, 1761-1766, 1987
11
M.A.Gómez, H.Tanaka, A.E.Tonelli.
High Resolution Solid State 13C Nuclear Magnetic Resonance study of isotactic polypropylene polymorphs.
Polymer, 28, 2227-2232, 1987
12
F.C.Schilling, M.A.Gómez, A.E.Tonelli, F.A.Bovey y A.E. Woodward.
Variable temperature, high resolution solid-state carbon-13 NMR study of 1,4-trans-polybutadiene.
Macromolecules, 20, 2954-2957, 1987
13
H.Tanaka, M.Thakur, M.A.Gómez y A.E.Tonelli.
Study of the thermochromic phase transition of polydiacetylene by solid-state 13C NMR.
Macromolecules, 20, 3094-3097, 1987
14
M.A.Gómez, E.D.T.Atkins, C.Upstill, A.Bello y J.G.Fatou.
Structure of one crystal modification of poly(3,3-diethyl oxetane).
Polymer, 29, 224-228, 1988
15
M.A.Gómez, M.H.Cozine y A.E.Tonelli.
High resolution solid state 13C NMR study of the α and β crystalline forms of poly(butylene terephthalate).
Macromolecules, 21, 388-392, 1988

16
H.Tanaka, M.A.Gómez, y A.E.Tonelli.
Decomposition of overlapped solid-state 13C NMR resonances belonging to different stereosequences in an atactic polymer.
Macromolecules, 21, 2934-2937, 1988
17
H.Tanaka, M.A.Gómez, A.E.Tonelli, S.V.Chichester-Hicks y R.C.Haddon.
Multinuclear solid state NMR study of phase transitionsin poly(bis(4-ethylphenoxy)phosphazene).
Macromolecules, 21, 2301-2304, 1988
18
A.G.González, A.Galindo, M.Alfonso, H.Mansilla, J.A.Palenzuela, M.A.Gómez, M.Martínez-Ripoll.
The biomimetic synthesis of trans(1 -H, 5 -H)-guaianolides.
Tetrahedron, 44, 4575-4584, 1988
19
H.Tanaka, M.A.Gómez, A.E.Tonelli, S.V.Chichester-Hicks y R.C.Haddon.
Studies of the phase transitions in poly(bis(4-ethylphenoxy)phosphazene) and poly(bis(4-t-butylphenoxy)phosphazene). I 31P NMR study.
Macromolecules, 22, 1031-1036, 1989
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H.Tanaka, M.A.Gómez, A.E.Tonelli y M.Thakur.
Thermocromic phase transitions of a polydiacetylene, poly(ETCD), studied by high resolution solid state 13C NMR.
Macromolecules, 22, 1208-1215, 1989
21
H. Tanaka, M.A.Gómez, A.E.Tonelli, A.J.Lovinger, D.D.Davis y M.Thakur.
Structural and morphological study of a melt crystallized polydiacetylene.
Macromolecules, 22, 2427-2432, 1989
22
M.A. Gómez, M.H. Cozine, A.E. Tonelli
Comments on the alpha to beta transition in poly(butylene terephthalate) - Reply
Macromolecules, 22, 2015-2015, 1989
23
C.Marco, M.A.Gómez, J.G.Fatou and A.Bello.
Morphology of poly(3,3-diethyloxetane).
European Polymer Journal, 25, 929-934, 1989
24
M.A.Gómez, A.E.Tonelli, A.J.Lovinger, F.C.Schilling, M.H.Cozine y D.D.Davis.
Structure and morphology of ethylene-vinyl chloride copolymers.
Macromolecules, 22, 4441-4451, 1989
25
C.Marco, J.G.Fatou, M.A.Gómez, H.Tanaka,A.E.Tonelli.
Molecular weight effect on the miscibility of poly(ethylene oxide)/isotactic poly(methyl methacrylate) blends.
Macromolecules, 23, 2183-2188, 1990
26
M.A.Gómez, A.E.Tonelli.
Carbon-13 Nuclear Magnetic Resonance study of chain conformation in the solid polymorphs of syndiotactic polystyrene.
Macromolecules, 23, 3385-3386, 1990
27
M.A.Gómez, C.Marco, J.G.Fatou, S.V.Chichester-Hicks, R.C.Haddon.
Morphological study of the phase transitions in poly(bis(4-ethylphenoxy) Phosphazene).
Polymer Communications, 31, 308-312, 1990
28
V.Lorenzo, C.Marco, M.A.Gómez, J.G.Fatou.
Influence of composition and molecular weights on the microhardness of poly(ethylene oxide)/ipoly(methyl methacrylate) blends.
J.Material Science Letters, 9, 1011-1013, 1990
29
M.A.Gómez, B.Jasse, A.E.Tonelli.
High resolution 13C NMR observations of two crystalline model compounds for syndiotactic polystyrene.
J.Am.Chem.Soc., 112, 5881-5882, 1990
30
M.A.Gómez, A.E.Tonelli.
Solid state 13C NMR study of poly(p-phenylene sulphide) and two model compounds.
Polymer, 32, 796-801, 1991

31
M.A.Gómez, C.Marco, J.G.Fatou, T.Bowmer, R.C.Haddon y S.V. Chichester-Hicks.
Thermal phase transitions of substituted poly(bis-(phenoxy phosphazenes)).
Macromolecules, 24, 3276-3284, 1991
32
H.Tanaka, M.Thakur, M.A.Gómez, A.E.Tonelli.
Study of the correlation between the backbone conformation and the electronic structure of polydiacetylenes by solid state 13C NMR.
Polymer, 32, 1834-1840, 1991
33
T.Bowmer, R.C.Haddon, S.V.Chichester-Hicks, M.A.Gómez, C.Marco, J.G.Fatou.
Effect of substituents on the thermal transitions and degradation behaviour of poly(bis-R-phenoxy phosphazenes).
Macromolecules, 24, 4827-4833, 1991
34
G.Ellis, M.A.Gómez, C.Marco, J.G.Fatou.
Raman spectroscopic study of a substituted polyphosphazene.

Polymer Bull., 25, 351-356, 1991
35
M.A.Gómez, A.E.Tonelli.
Structural, conformational and motional studies of the crystalline polymorphs of syndiotactic polystyrene.
Macromolecules, 24, 3533-3536, 1991
36
G.Ellis, J.Lorente, C.Marco, M.A.Gómez, J.G.Fatou, P.J.Hendra.
Fourier transform Raman spectroscopic study of main-chain thermotropic liquid crystalline polyesters.
Spectrochim. Acta, 47A, 1353-1366, 1991
37
I.Campoy, C.Marco, M.A.Gómez, J.G.Fatou.
Thermal transitions of liquid crystal polyesters: poly(decamethylene-4,4,-diphenoxy terephthalate).
Polymer Bulletin, 27, 81-89, 1991
38
F.C.Schilling, M.A.Gómez, A.E.Tonelli.
Solid-state NMR observations of the crystalline conformation of poly(dimethylsiloxane).
Macromolecules, 24, 6552-6553, 1991
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J.Lorente, C.Marco, M.A.Gómez, J.G.Fatou.
Effect of branched alkyl spacers in liquid crystalline poly(2,2,dimethyl (trimethylene) terephthaloyl-bis-4-oxybenzoate).
Polymer Commun, 33, 202-205, 1992
40
C.Marco, J.Lorente, M.A.Gómez, J.G.Fatou.
Thermal and structural study of the phase transitions in liquid crystalline poly(heptamethylene terephthaloyl-bis-4-oxybenzoate).
Polymer, 33, 3108-3115, 1992
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I.Campoy, C.Marco, M.A.Gómez, J.G.Fatou.
Kinectics of the three dimensional ordering in the thermotropic liquid crystal poly(decamethylene-4,4´-diphenoxy terephthalate).
Macromolecules, 25, 4392-4398, 1992
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J.Lorente, C.Marco, M.A.Gómez, J.G.Fatou.
Kinetics of the phase transitions in liquid crystalline poly(alkyl terephthaloyl bis-(4-oxybenzoate))s.
European Polymer Journal, 28, 911-921, 1992
43
J.del Pino, M.A.Gómez, C.Marco, G.Ellis, J.G.Fatou.
Polymorphism in liquid crystalline poly(tetramethylene terephthaloyl-bis-4-oxybenzoate).
Macromolecules, 25, 4642-4648, 1992
44
J.del Pino, C.Marco, M.A.Gómez, J.G.Fatou.
Asymmetrically branched alkyl spacers in liquid crystalline poly(alkyl terephthaloyl-bis-(4-oxybenzoate))s: Poly(1,4-dimethyl tetramethylene terephthaloyl-bis-(4-oxybenzoate)).
Makromol. Chem. 193, 2251-2258, 1992
45
C.Marco, M.A.Gómez, J.G.Fatou, A.Etxeberria, M.M.Elorza y J.J.Iruin.
Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blends. Part I.- Thermal properties and solid state 13C NMR study.
European Polymer Journal 29, 1477-1481, 1993
46
A.Etxebarria, J.M.Elorza, J.J.Iruin, C.Marco, M.A.Gómez y J.Gómez Fatou.
Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blends. Part II: An inverse gas chromatography study.
Eur. Polym. J. 29, 14831487, 1993
47
I.Campoy, M.A.Gómez, C.Marco, J.G.Fatou.
Three dimensional ordering in liquid crystalline poly(alkyl-4,4´-diphenoxy terephthalates).
European Polymer Journal 29, 1161-1169, 1993
48
I.Campoy, G.Ellis, C.Marco, M.A.Gómez, J.G.Fatou.
Thermal stability of thermotropic liquid crystals: Poly(alkyl-4,4´-diphenoxy terephthalates).
Polymer degradation and stability, 41, 333-340, 1993
49
I.Campoy, C.Marco, M.A.Gómez, J.G.Fatou.

Thermal transitions in poly(alkyl-4,4´-diphenoxy terephthalates).
Polymer Bulletin, 31, 97-104, 1993
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J.Lorente, G.Ellis, C.Marco, M.A.Gómez, J.G.Fatou.
The thermal decomposition of poly(alkyl-4,4´-(terephthaloyldioxy) dibenzoates).
European Polymer Journal, 30, 621-627, 1994
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