

Curriculum del prof. Gaetano Guerra

Il prof. Gaetano Guerra ha fornito, a partire dalla metà degli anni settanta, importanti contributi alla scuola napoletana di polimeri diretta dal prof. Paolo Corradini ed ha poi guidato a partire dal 1995 una Scuola brillante di Chimica Macromolecolare presso l'Università di Salerno.

La maggior parte dell'attività del prof. Gaetano Guerra ha avuto per oggetto lo studio di materiali polimerici, affrontato sia da un punto di vista teorico che sperimentale, con rilevanti risultati anche in campo applicativo, come testimoniato da numerosi brevetti, alcuni dei quali anche ceduti ad aziende nazionali ed internazionali.

In particolare, è stato attivo nel campo della catalisi eterogenea di polimerizzazione di olefine e nell'area dei catalizzatori omogenei a base di metalloceni. Rilevanti sono risultate pubblicazioni sulla struttura, sul polimorfismo e sui fenomeni di ordine-disordine che hanno luogo nei polimeri semicristallini.

Negli ultimi venti anni, una attività di ricerca da lui promossa, che ha dato eccellenti risultati e di cui è ritenuto "leader" a livello internazionale, ha riguardato polimeri caratterizzati da fasi co-cristalline con molecole ospitate ("guest") di bassa massa molecolare, di cui sono state evidenziate proprietà foto-reattive, fluorescenti, magnetiche e piezoelettriche. Particolarmente interessanti sono i risultati relativi a due polimeri di produzione industriale (il polistirene sindiotattico ed il polifenilenossido) per i quali la rimozione delle molecole guest porta alla formazione di fasi cristalline-nanoporose. Tali nuovi materiali hanno importanti applicazioni in separazioni molecolari, immagazzinamento di gas ed in sensoristica.

Negli ultimi anni a tale attività si sono affiancate attività su grafeni e su grafeni chimicamente modificati, quali catalizzatori e quali componenti di materiali in tre dimensioni.

Il Prof. Guerra ha pubblicato circa trecentosettanta lavori su riviste internazionali ed il suo "h-index factor" dell'attività scientifica è pari a 77. L'alto livello del lavoro scientifico del prof. Guerra è anche testimoniato dal fatto che oltre cento suoi lavori sono pubblicati su importanti riviste della American Chemical Society. In particolare, oltre ottanta lavori sono stati pubblicati su *Macromolecules*, la più importante rivista di scienza dei polimeri, 15 lavori su *Chemistry of Materials*, la più rilevante rivista di chimica dei materiali, ed 11 lavori sul *Journal of the American Chemical Society*. Ha tenuto conferenze su invito in rilevanti convegni nazionali ed internazionali, tra cui alcuni convegni MACRO IUPAC, della European Polymer Federation e della Polymer Processing Society.

E' stato responsabile di svariati progetti di ricerca ministeriali e della Unione Europea e di attività di ricerca in collaborazione con importanti società internazionali operanti in tecnologie dei polimeri quali ad esempio la Pirelli, la Basell, la Freudenberg, la Prysmian e la Treofan.

E' risultato vincitore nel 1986 di un premio conferito dall'Accademia Napoletana di Scienze Lettere ed Arti per il miglior gruppo di lavori nel settore della Chimica Macromolecolare, e nel 1992 del Premio Nazionale Federchimica (sezione riservata a docenti e ricercatori accademici). Dal 1998 al 2000 è stato Presidente della Associazione Italiana di Scienza e Tecnologia delle Macromolecole. Nel 2003 è stato insignito dal Presidente della Repubblica del Premio Linceo. Nel 2009 il suo gruppo di ricerca ha vinto due "business plan competitions": il terzo premio del "Premio Nazionale Innovazione" (per le migliori idee imprenditoriali ad alto contenuto tecnologico) ed il "Premio Made NEW in Italy 2009 -I materiali innovativi dall'università all'impresa". Nel 2010 il suo gruppo di ricerca è stato insignito, dal Presidente della Repubblica presso la sede del Quirinale, del "Premio Nazionale Innovazione" (per le migliori idee imprenditoriali ad alto contenuto tecnologico). Nel 2016 la Società Chimica Italiana gli ha conferito la Medaglia Piero Pino. E' stato Presidente della Società Chimica Italiana per il triennio 2020-2022, di cui è attualmente Past-President. Nel novembre 2017 è stato eletto Socio Corrispondente dell'Accademia Nazionale dei Lincei.

Lista delle principali pubblicazioni del prof. Gaetano Guerra

La lista è articolata in tre sezioni:

- A) Articoli pubblicati su riviste a diffusione internazionale
- B) Brevetti
- C) Capitoli di libri a diffusione internazionale

A) Articoli pubblicati su riviste a diffusione internazionale.

A1) P.Corradini, G.Guerra

On the chain conformation of poly(tetrafluoroethylene) in the crystalline modification above 30°C.
Macromolecules, 1977, 10, 1410.

A2) P.Corradini, V.Barone, R.Fusco, G.Guerra

Analysis of models for the Ziegler-Natta stereospecific polymerization on the basis of the non-bonded interactions at the catalytic site- I- The Cossee model.
Eur.Polym.J., 1979, 15, 1133.

A3) P.Corradini, G.Guerra, V.Barone, R.Fusco

Analysis of models for the Ziegler-Natta stereospecific polymerization on the basis of the non-bonded interactions at the catalytic site- II- Edges, steps and exposed cuts.
Eur.Polym.J., 1980, 16, 835.

A4) P.Corradini, G.Guerra, V.Petraccone, B.Pirozzi

Geometrical and energetical feasibility of a highly extended chain conformation for isotactic polystyrene.
Eur.Polym.J., 1980, 16, 1089.

A5) L.Nicolais, G.Guerra, C.Migliaresi, L.Nicodemo, A.T.Di Benedetto

Mechanical properties of polystyrene/glass beads composites.
Composites, 1981, 12, 33.

A6) L.Nicolais, G.Guerra, C.Migliaresi, L.Nicodemo, A.T.Di Benedetto

Viscoelastic behaviour of glass-reinforced epoxy resin.
Polym. Composites, 1981, 2, 116.

A7) G.Guerra, M.Ilavsky, J.Biros, K.Dusek

The viscoelastic and equilibrium rheoptical behaviour of crosslinked ethylene-propylene copolymers.
Colloid & Polym.Sci., 1981, 259, 1190.

A8) P.Corradini, V.Barone, R.Fusco, G.Guerra

Steric control in Ziegler-Natta catalysts, an analysis of non-bonded interactions at model catalytic sites.
J. Catal., 1982, 77, 32.

A9) P.Corradini, V.Barone, G.Guerra

Steric control in the first step of the isospecific Ziegler-Natta polymerization of propene.
Macromolecules, 1982, 15, 1242.

A10) P.Corradini, R.Napolitano, L.Oliva, V.Petraccone, B.Pirozzi, G.Guerra

A possible structural interpretation of the two DSC melting peaks of isotactic polypropylene in the α -modification.

Makromol.Chem., Rapid Commun., 1982, 3, 753.

A11) A.Addeo, V.Bonadies, C.Carfagna, G.Guerra, A.Moschetti, L.Nicolais

Use of polymeric materials in the assembly of solar cells.

Solar Energy, 1983, 30, 421.

A12) G.Guerra, C.Paolone, L.Nicolais

Surface colouring of glassy polymers by solvent diffusion.

J. Coating Tech., 1983, 55, 53.

A13) C.Carfagna, G.Guerra, L.Nicolais, S.Tartaro

Effects of postcuring and water sorption on the mechanical properties of composite dental restorative materials.

Biomaterials, 1983, 4, 228.

A14) P.Corradini, V.Barone, R.Fusco, G.Guerra

A possible model of catalytic sites for the stereospecific polymerization of α -olefins on first generation and supported Ziegler-Natta catalysts.

Gazz. Chim.It., 1983, 113, 601.

A15) G.Guerra, A.Moschetti, C.Carfagna, U.Mandara, A.Cutolo, S.Solimeno

Additives in transparent glassy polymers: concentration profiles obtained by solvent diffusion technique.

J.Appl.Polym.Sci., 1984, 29, 2271.

A16) C.Carfagna, C.De Rosa, G.Guerra, V.Petraccone

Recrystallization kinetics of isotactic polypropylene (α -form).

Polymer, 1984, 25, 1462.

A17) G.Guerra, V.Petraccone, P.Corradini, C.De Rosa, R.Napolitano, B.Pirozzi, G.Giunchi

Crystalline order and melting behaviour of isotactic polypropylene (α form).

J.Polym.Sci., Polym.Phys.Ed., 1984, 22, 1029.

A18) C.De Rosa, G.Guerra, R.Napolitano, V.Petraccone, B.Pirozzi

Conditions for the α_1 - α_2 transition in isotactic polypropylene samples.

Eur.Polym.J., 1984, 29, 937.

A19) G.Guerra, V.Riccio, L.Nicolais

Surface addition of flame retardants in acrylic cast sheets.

J.Fire Sci., 1984, 2, 60.

A20) P.Corradini, G.Guerra, V.Barone

Conformational analysis of polypropylene chains bound to model catalytic sites.

Eur.Polym.J., 1984, 20, 1177.

A21) V.Petraccone, C.De Rosa, G.Guerra, A.Tuzi

On the double peak shape of melting endotherms of isothermally crystallized isotactic polypropylene samples.

Makromol.Chem., Rapid Commun., 1984, 5, 631.

A22) P.Ammendola, G.Guerra, V.Villani

Conformational analysis and reactivity in isotactic specific polymerization of C-3 branched α -olefins.

Makromol.Chem., 1984, 185, 2599.

A23) V.Petraccone, G.Guerra, C.De Rosa, A. Tuzi

Extrapolation to the equilibrium melting temperature for isotactic polypropylene.

Macromolecules, 1985, 18, 813.

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Stereoselectivity of the model catalytic site proposed for the isospecific Ziegler-Natta polymerization of the α -olefins.

Macromolecules, 1985, 18, 1401.

A25) V.Busico, P.Corradini, G.Guerra, P.Severino

Polymorphic and mesomorphic behaviour of ionic amphiphilic compounds : a simple electrostatic model.

Gazz.Chim.It., 1985, 115, 17.

A26) G.Guerra, C.De Rosa, V.Petraccone, A.Tuzi

Unusual recrystallization and melting behaviour in DSC scans of isotactic polypropylene samples.

J.Thermal Anal., 1985, 30, 1337.

A27) C.De Rosa, G.Guerra, R.Napolitano, V.Petraccone, B.Pirozzi

Crystalline order and melting behaviour of isotactic polypropylene (α -form).

III. Isothermally crystallized samples.

J.Thermal Anal., 1985, 30, 1331.

A28) G.Guerra, V.Petraccone, C.De Rosa, P.Corradini

X-ray analysis on unoriented and orientes samples of the quenched form of isotactic polypropylene.

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Configurational and conformational requirements for an eventual 'back-biting' of the propagating species in the diolefin polymerization.

Polym.Comm., 1985, 26, 175.

A30) P.Corradini, G.Guerra, R.Pucciariello

New model of the origin of the stereospecificity in the synthesis of syndiotactic polypropylene.

Macromolecules, 1985, 18, 2030-4.

- A31) G.Guerra, C.De Rosa, V.Petraccone
Manufacturing of polypropylene laminates and related structural reorganization in the crystalline phase.
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On the blends of poly(vinylidene fluoride) and poly(vinylfluoride).
Macromolecules, 1986, 19, 1935.
- A33) P.Corradini, V.Petraccone, C.De Rosa, G.Guerra
On the structure of the quenched mesomorphic phase of isotactic polypropylene.
Macromolecules, 1986, 19, 2699.
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Model catalytic sites for Ziegler-Natta polymerization and relative reactivities of ethylene and propylene.
Polym.Commun., 1987, 28, 100.
- A35) C.De Rosa, G.Guerra, V.Petraccone, A.Tuzi
Comments on the melting behaviour of isotactic polypropylene isothermally crystallized from the melt.
Polym.Commun., 1987, 28, 143.
- A36) P.Corradini, C.De Rosa, G.Guerra, V.Petraccone
Fourier transform analysis of models for the disordered phases (IV and I) of poly(tetrafluoroethylene).
Macromolecules, 1987, 20, 3043.
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Melting and solid phase transitions of isothermally crystallized copolymers of tetrafluoroethylene and hexafluoropropene.
Eur.Polym.J., 1988, 24, 445.
- A39) G.Guerra, S.Choe, D.J.Williams, F.E.Karasz, W.J.MacKnight
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Macromolecules, 1988, 21, 231.
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Miscible polybenzimidazole blends with a benzophenone-based polyimide.
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Blends of two poly(aryl ether ketones).
Polymer, 1988, 29, 1016.
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A possible model for site control of stereoregularity of isotactic specific homogeneous Ziegler-Natta polymerization.
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Structural variations in ethylene-tetrafluoroethylene copolymers as a function of composition and temperature.
Makromol.Chem., 1989, 190, 827
- A46) L.Cavallo, G.Guerra, L.Oliva, M.Vacatello ,P.Corradini
Steric control in the initiation step of the isospecific homogeneous Ziegler-Natta polymerization of propene and 1-butene.
Polym. Commun., 1989, 30, 16.
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Structural characterization of vinylidene fluoride/vinyl fluoride copolymers.
Makromol.Chem., 1989, 190, 2203.
- A49) A.Grassi, P.Longo , G.Guerra
Solid-state high-resolution ^{13}C NMR spectra of syndiotactic polystyrene.
Makromol. Chem., Rapid Commun., 1989, 10, 687.
- A50) V.Venditto, G.Guerra, P.Corradini , R.Fusco
Possible model for chain end control of stereoregularity in the isospecific homogeneous Ziegler-Natta polymerization.
Polymer, 1990, 31, 530.

- A51) G.Guerra, V.M.Vitagliano, C.De Rosa, V.Petraccone, P.Corradini
Polymorphism in melt crystallized syndiotactic polystyrene samples.
Macromolecules, 1990, 23, 1539.
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Effects of blending on the polymorphic behaviour of melt-crystallized syndiotactic polystyrene.
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Blending effects in the polymorphism of syndiotactic polystyrene crystallized from the quenched amorphous phase.
Polym.Commun., 1991, 32, 30.
- A56) L.Cavallo, G.Guerra, M.Vacatello, P.Corradini
A possible model for the stereospecificity in the syndiospecific polymerization of propene with group 4A metallocenes.
Macromolecules, 1991, 24, 1784.
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On the effect of methyl substituents on chelating ligands in models for homogeneous isospecific Ziegler-Natta catalysis.
Polymer, 1991, 32, 1329.
- A58) M.Rapacciuolo, C.De Rosa, G.Guerra, G.Mensitieri, A.Apicella, M.A. Del Nobile
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Polymorphism and chain conformations in the crystalline forms of syndiotactic poly(1-butene).
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- A61) C.De Rosa, G.Guerra, P.Corradini

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Rend.Fis.Acc.Lincei, 1991, s.9,v.2, 227.

- A62) G.Guerra, M.Iuliano, A.Grassi, D.M.Rice, F.E.Karasz, W.J.MacKnight
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Effect of moisture on the crystallization behavior of PET from the quenched amorphous phase.
J.Appl.Polym.Sci., 1991, 43, 1087.
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Crystal structure of the α -form of syndiotactic polystyrene.
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Polymer, 1992, 33, 22.
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Polymer, 1992, 33, 1423.
- A71) F.Auriemma, P.Corradini, C.De Rosa, G.Guerra, V.Petraccone, R.Bianchi, G.Di Dino
On the mesomorphic form of poly(ethylene terephthalate).
Macromolecules, 1992, 25, 2490.

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X-ray diffraction, conformational analysis and stereo-regularity of a crystalline poly(3-methyl-1,3-pentadiene).
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Novel crystalline syndiotactic polystyrene/polyphenyleneoxide blends.
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Makromol.Chem., 1993, 194, 1335.
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Macromolecules, 1992, 25, 6938.
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