

Publicazioni

Articoli su riviste

1. Mario Caruso, Piergiorgio Flamini, Emanuela Gatto, Ernesto Placidi, Gemma Ballano, Fernando Formaggio, Claudio Toniolo, David Zanuy, Carlos Alemán and Mariano Venanzi. *A single-residue substitution inhibits fibrillization of alanine-based pentapeptides. A spectroscopic and molecular dynamics investigation*, Soft Matter, 2014, 10, 2508-2519.
2. Emanuela Gatto, Alessia Quatela, Mario Caruso, Roberto Tagliaferro, Marta De Zotti, Fernando Formaggio, Claudio Toniolo, Aldo Di Carlo and Mariano Venanzi. *Mimicking the Nature: A Novel Peptide-Based Bio-Inspired Approach for Solar Energy Conversion*, ChemPhysChem 2014, 15, 64-68.
3. M. Caruso, E. Placidi, E. Gatto, C. Mazzuca, L. Stella, G. Bocchinfuso, A. Palleschi, F. Formaggio, C. Toniolo and M. Venanzi. *Fibrils or globules? Tuning the morphology of peptide aggregates from helical building blocks*, J. Phys. Chem. B 2013, 117, 5448-5459.
4. E Gatto and Mariano Venanzi. *Self-assembled monolayers formed by helical peptide building blocks: a new tool for bioinspired nanotechnology*, Polymer Journal (2013), 1-13.
5. Emanuela Gatto, Gianfranco Bocchinfuso, Antonio Palleschi, Simona Oncea, Marta De Zotti, Fernando Formaggio Claudio Toniolo and Mariano Venanzi. *3D Structure, Dynamics, and Activity of Synthetic Analog of the Peptaibiotic Trichodecenin I*, Chemistry & Biodiversity, 10 (2013), 887-903.
6. Emanuela Gatto, Fernando Formaggio, Claudio Toniolo and Mariano Venanzi. *Peptide Self-Assembled Monolayers. A New Tool for bioinspired nanotechnology*, Chemistry Today (2013) 31, 27-31.
7. Raffaella Lettieri, Martina Bischetti, Emanuela Gatto, Antonio Palleschi, Elisabetta Ricci, Fernando Formaggio, Marco Crisma, Claudio Toniolo, Mariano Venanzi *Looking for the Peptide 2.05-Helix: A Solvent- and Main-chain Length-Dependent Conformational Switch Probed by Electron Transfer Across Ca, α -Diethylglycine Homooligomers*, Biopolymers (Peptide Science) (2013) 100, 51-63.
8. M. Scarselli, L. Camilli, L. Matthes, O. Pulci, P. Castrucci, E. Gatto, M. Venanzi, and M. De Crescenzi *Photoresponse from noble metal nanoparticles-multi walled carbon nanotube composites*, Appl. Phys. Lett. (2012) 101, 241113.
9. A. Vecchi, E. Gatto, B. Floris, V. Conte, M. Venanzi, V. N. Nemykin, P. Galloni *Tetraferrocenylporphyrins as active components of self-assembled monolayers on gold surface*, Chem. Commun. (2012) **48**, 5145–5147
10. E. Gatto, A. Porchetta, M. Scarselli, M. De Crescenzi, F. Formaggio, C. Toniolo, M. Venanzi *Playing with peptides: how to build a supramolecular Peptide nanostructure by exploiting helix...helix macrodipole interactions*, Langmuir (2012), 28, 2817-2826.
11. M. Scarselli, L. Camilli, P. Castrucci, S. Del Gobbo, S. Casciardi, F. Tombolini, E. Gatto, M. Venanzi, M. De Crescenzi, *Tuning Photoresponse through Size Control of Cu nanoparticles deposited on multi wall carbon nanotubes*, Journal of Nanoscience and Nanotechnology (2011) 11 (10) , pp. 9321-9325.
15. Emanuela Gatto, Mario Caruso, Alessandro Porchetta, Claudio Toniolo, Fernando Formaggio, Marco Crisma and Mariano Venanzi, *Modulating photocurrent generation through bicomponent peptide monolayers on gold surfaces: antenna and junction effects*, J. Peptide Science, 2011, 17, 124-131.

16. M Scarselli, P Castrucci, L Camilli, S Del Gobbo, S Casciardi, F Tombolini, E Gatto, M Venanzi and M De Crescenzi *Influence of the Cu nanoparticles size on the photo-electrochemical response from Cu-multi wall carbon nanotube composites*, Nanotechnology, 2011, 22, 035701 (9pp).
17. Donato Monti, Massimo De Rossi, Alessandro Sorrenti, Giuseppe Laguzzi, Emanuela Gatto, Manuela Stefanelli, Mariano Venanzi, Loredana Luvidi, Giovanna Mancini and Roberto Paolesse, *Supramolecular Chirality in Solvent Promoted Aggregation of Amphiphilic Porphyrin Derivatives. Kinetic Studies and Comparison Between Solution Behaviour and Solid State Morphology by AFM Topography*, Chemistry, **2010**, 16, Pages: 860–870.
18. Francesco Caporossi, Barbara Floris, Pierluca Galloni, Emanuela Gatto, Mariano Venanzi, Alessia Francesca Mozzi, Andrea Urbani, Karl M. Kadish, *Fluorene–fullerene dyads: Modulation of interaction*, Synthetic Metals, **2009**, 159, 1403-1408.
19. D. Filippini, E. Gatto, A. Alimelli, M. A. Malik, C. Di Natale, R. Paolesse, A. D’Amico, I. Lundström, *Spectral fingerprinting of porphyrins for distributed chemical sensing*, J. of Porphyrins and Phthalocyanines 13, **2009**, 77-83.
20. Muhammad Ali Malik, Emanuela Gatto, Stephen Macken, Corrado DiNatale, Roberto Paolesse, Arnaldo D’Amico, Ingemar Lundström, Daniel Filippini, *Imaging fingerprinting of excitation emission matrices*, Analytica Chimica Acta, **2009**, 635, 196
21. M. Scarselli, C.Scilletta, F. Tombolini, P. Castrucci, M. Diociaiuti, S.Casciardi, E. Gatto, M. Venanzi and M. De Crescenzi, *Multi-wall Carbon Nanotubes Decorated with Copper Nanoparticles: Effect on the Photocurrent Response*, J. Phys. Chem. C, **2009**, 113 (14), pp 5860–5864
22. Emanuela Gatto, Lorenzo Stella, Chiara Baldini, Mariano Venanzi, Claudio Toniolo, Fernando Formaggio. *Photocurrent generation in peptide-based self-assembled monolayers on gold electrodes*, Superlattices and Microstructures, **2009**, 46, 34-39.
23. M. Scarselli, C.Scilletta, F. Tombolini, P. Castrucci, M. De Crescenzi, M. Diociaiuti, S.Casciardi, E. Gatto, M. Venanzi., *Photon harvesting with multi wall carbon nanotubes*, Superlattices and Microstructures, **2009**, 46, 340-346.
24. Mariano Venanzi, Gianfranco Bocchinfuso, Emanuela Gatto, Antonio Palleschi, Lorenzo Stella, Fernando Formaggio and Claudio Toniolo, *Metal Binding Properties of Fluorescent Analogues of Trichogin GA IV: a Conformational Study by Time-Resolved Spectroscopy and Molecular Mechanics Investigations*, ChemBioChem, **2009**, 10, 91-97.
25. M. De Crescenzi, M. Scarselli, A. Sgarlata, S. Masala, P. Castrucci, E. Gatto, M. Venanzi, A. Karmous, P.D. Szkutnik, A. Ronda and I. Berbezier *Photocurrent generation from Ge nanodots in the near UV and visible region*, Superlattices and Microstructures, **2008**, 44, 331-336.
26. Donato Monti, Mariano Venanzi, Emanuela Gatto, Giovanna Mancini, Alessandro Sorrenti, Petr Štěpánek, and Pavel Drašar, *Study of the Supramolecular Chiral Assembly of meso-“C-Glucoside”-Porphyrin Derivatives*, New Journal of Chemistry, **2008**, 32, 2127-2133.
27. Emanuela Gatto, Muhammad Ali Malik, Corrado Di Natale, Roberto Paolesse, Arnaldo D'amico, Ingemar Lundström and Daniel Filippini, *Polychromatic fingerprinting of excitation emission matrices*, Chemistry Eur. J., **2008**, 14, 6057-6060.
28. Emanuela Gatto, Alessandro Porchetta, Lorenzo Stella, Ivan Guryanov, Fernando Formaggio, Claudio Toniolo, Bernard Kaptein, Quirinus B. Broxterman, and Mariano Venanzi. *Conformational Effects on the Electron Transfer Efficiency in Peptide Foldamers Based on C^{α,α}-Disubstituted Glycyl Residues*, Chemistry & Biodiversity, 2008,5, 1263.

29. Emanuela Gatto, Lorenzo Stella, Fernando Formaggio, Claudio Toniolo, Leandro Lorenzelli, Mariano Venanzi *Electroconductive and photocurrent generation properties of self-assembled monolayers formed by functionalized conformationally-constrained peptides on gold microelectrodes*, J. Pept. Sci., 2008, 14,184.
30. M. Scarselli, S. Masala, P. Castrucci and M. De Crescenzi, E. Gatto, M. Venanzi, A. Karmous, P.D. Szkutnik, A. Ronda and I. Berbezier, *Opto-electronic properties in quantum-confined germanium dots*, Applied Physics Letters, 2007, 91, 141117.
31. M. De Crescenzi, F. Tombolini, M. Scarselli, S. Del Gobbo, E. Speiser, P. Castrucci, M. Diociaiuti, S. Casciardi, E. Gatto, M. Venanzi. *Visible and near ultraviolet photocurrent generation in carbon nanotubes*, Surface Science 2007, 601, 2810-2813.
32. Emanuela Gatto, Mariano Venanzi, Antonio Palleschi, Lorenzo Stella, Basilio Pispisa, Leandro Lorenzelli, Claudio Toniolo, Fernando Formaggio and Giovanni Marletta. *Self-assembled peptide monolayers on interdigitated gold microelectrodes*. Materials Science and Engineering C, 2007, 27, 1309-1312.
33. P. Castrucci, F. Tombolini, M. Scarselli, E. Speiser, S. Del Gobbo, W. Richter, M. De Crescenzi, M. Diociaiuti, E. Gatto, M. Venanzi. *Large Photocurrent Generation in multiwall carbon nanotubes*, Appl. Phys. Lett., 2006, 89, 253107.
34. Emanuela Gatto, Claudia Mazzuca , Lorenzo Stella , Mariano Venanzi , Claudio Toniolo and Basilio Pispisa. *Effect of Peptide Lipidation on Membrane Perturbing Activity: a Comparative Study on Two Trichogin Analogues*, , J. Phys. Chem. B, 2006, 110,22813-22818.
35. Mariano Venanzi, Emanuela Gatto, Gianfranco Bocchinfuso, Antonio Palleschi, Lorenzo Stella, Chiara Baldini, Fernando Formaggio and Claudio Toniolo, *Peptide folding dynamics: a time-resolved study from the nanosecond to the microsecond time regime*, J. Phys. Chem. B, 2006, 110, 22834-22841
36. Francesco Caporossi, Barbara Floris, Pierluca Galloni, Emanuela Gatto, Mariano Venanzi. *Enhanced Electron Transfer Rate in a Rigid Ferrocene-Fulleropyrrolidine Dyad*, Eur. J. Org. Chem., 2006, 4362
37. M. Venanzi, E.Gatto, G.Bocchinfuso, A. Palleschi, L. Stella, F. Formaggio, C. Toniolo. *Dynamics of Formation of a Helix-Turn-Helix in a Membrane-Active Peptide: a Time-Resolved Spectroscopic Study*, ChemBioChem, 2006, 7, 1, 43-45
38. A.S. Abreu, P.M.T. Ferreira, M.J.R.P. Queiroz, E. Gatto, M. Venanzi *Sonogashira cross couplings of dehydroamino acid derivatives and phenylacetylenes* , Eur. J. Org. Chem., 2004, 19, 3985-3991

Capitoli su libri

1. E. Gatto, M. Caruso and M. Venanzi. *The electrochemistry of Peptide Self-Assembled Monolayers*. Nano Electrochemistry, in corso di stampa.
2. Emanuela Gatto and Mariano Venanzi. *Peptronics: Peptide Materials for Electron Transfer in Peptide Materials: From Nanostructures to Applications*, First Edition. Edited by Mariano Venanzi, Carlos Alemán and Alberto Bianco. Published 2013 by John Wiley & Sons, Ltd. Pag. 105-148.
3. Pierluca Galloni, Andrea Vecchi, Alessia Coletti, Emanuela Gatto, Barbara Floris and Valeria Conte. *Porphyryns as Active Components for Electrochemical and Photoelectrochemical Devices*, in Handbook of Porphyrin Science 2013, Karl Kadish, Roger Guilard, Kevin Smith, Eds, in press.

4. Caruso, M., Porchetta, A., Gatto, E., Venanzi, M., Crisma, M., Formaggio, F., Toniolo, C. “*Spectroscopy and electrochemistry of peptide-based self-assembled monolayers*” 2012, *Lecture Notes in Electrical Engineering*, 109 LNEE , pp. 73-77
5. L. STELLA, G. BOCCHINFUSO, GATTO E., C. MAZZUCA, M. VENANZI, F. FORMAGGIO, C. TONIOLO, A. PALLESCHI AND B. PISPISA (2010). Peptide foldamers: from spectroscopic studies to applications. In: GEDDES, C. D. AND LAKOWICZ, J. R.. *Reviews in Fluorescence* 2008. vol. 5, p. 405-424, NEW YORK: Springer

Proceedings

1. E. Gatto, S. Lopez, L. Stella, G. Bocchinfuso, A. Palleschi, C. Serpa, F. Formaggio, C. Toniolo, M. Venanzi. *Monitoring peptide folding in membrane-active peptides: A time-resolved spectroscopic study*, Peptides 2012: Proceedings of the 32nd European Peptide Symposium, George Kokotos, Violetta Constantinou-Kokotou, John Matsoukas (Editors) (2012) European Peptide Society, pag. 542-543.
2. M. Venanzi, M. Caruso, E. Gatto, F. Formaggio, C. Toniolo, A. M. Textera, J. C. Rodriguez-Cabello. *Peptide self-assembled monolayers as a new tool for nanotechnology*, Peptides 2012: Proceedings of the 32nd European Peptide Symposium, George Kokotos, Violetta Constantinou-Kokotou, John Matsoukas (Editors), 2012 European Peptide Society, pag. 66-67.
3. K. Wright, E. Longo, E. Gatto, M. Venanzi, M. Crisma, F. Formaggio, C. Toniolo Synthesis and a preliminary binding study to a metal surface of peptides characterized by the helicogenic, cyclic disulfide containing α -amino acid Adt, Peptides 2012: Proceedings of the 32nd European Peptide Symposium, George Kokotos, Violetta Constantinou-Kokotou, John Matsoukas (Editors) (2012) European Peptide Society, pag. 334-335.
4. Emanuela Gatto, Alessandro Porchetta, Fernando Formaggio, Claudio Toniolo, Manuela Scarselli, Maurizio De Crescenzi, Mariano Venanzi. *Playing with Peptides: How to Build a Supramolecular Peptide Nanostructure by Exploiting Helix-Helix Macrodipole Interactions*, Peptides Building Bridges: Proceedings of the 22nd American Peptide Symposium, 25-30 June 2011, Harbor Island, San Diego, California, 2011, Michal Lebl (Editor) Prompt Scientific Publishing San Diego, CA, pag. 102-103.
5. Fernando Formaggio, Gema Ballano, Alessandro Moretto, Cristina Peggion, Marco Crisma, Raffaella Lettieri, Emanuela Gatto, Mariano Venanzi, Claudio Toniolo. *The Fully-Extended Peptide Conformation: In Search of Stabilizing Features*. Peptides Building Bridges: Proceedings of the 22nd American Peptide Symposium, 25-30 June 2011, Harbor Island, San Diego, California, 2011, Michal Lebl (Editor) Prompt Scientific Publishing San Diego, CA, pag. 106-107.
6. E. Gatto, G. Bocchinfuso, A. Palleschi, L. Stella, M. Venanzi, S. Oancea, M. De Zotti, F. Formaggio, C. Toniolo. *Structure, Dynamics and Bioactivity of Synthetic Analogues of the Antimicrobial Peptide Trichodecenin I*. Peptides Building Bridges: Proceedings of the 22nd American Peptide Symposium, 25-30 June 2011, Harbor Island, San Diego, California, 2011, Michal Lebl (Editor) Prompt Scientific Publishing San Diego, CA, pag. 256-257.
7. M. Caruso, E. Placidi, E. Gatto, L. Stella, A. Palleschi, G. Bocchinfuso, F. Formaggio, C. Toniolo and M. Venanzi (2010). *Optical spectroscopy and conformational analysis of peptide aggregates: the role of aromatic interactions and conformational flexibility*, Peptides 2010: Tales of Peptides; Proceeding of the 31st European Peptide Symposium, Michal Lebl, Morten Meldal, Knud J. Jensen, Thomas Hoeg-Jensen (Editors) San Diego, USA, Prompt Scientific Publishing, pag. 582-583.

8. Porchetta Alessandro, Gatto Emanuela, Caruso Mario, Crisma Marco, Formaggio Fernando, Toniolo Claudio, Venanzi Mariano. (2010) *Photocurrent generation through mono- and bi-component peptide self-assembled monolayers: antenna and junction effects*, Peptides 2010: Tales of Peptides; Proceeding of the 31st European Peptide Symposium, Michal Lebl, Morten Meldal, Knud J. Jensen, Thomas Hoeg-Jensen (Editors), San Diego, USA, Prompt Scientific Publishing, pag.618-619.
9. Venanzi M, Gatto E, Bocchinfuso G, Palleschi A, Stella L, Baldini C, Formaggio F, Toniolo C, Pispisa B., *Monitoring peptide folding by time-resolved spectroscopies: the effect of a single Gly to Aib substitution*, Adv Exp Med Biol., **2009**, 611, 47-8.
10. Venanzi M, Gatto E, Stella L, Bocchinfuso G, Palleschi A, Formaggio F, Toniolo C., *Antimicrobial peptides chelating lanthanide ions: the case of trichogin GA IV analogues and terbium(III)*, Adv Exp Med Biol. **2009**, 611, 43-4.
11. Mariano Venanzi, Emanuela Gatto, Gianfranco Bocchinfuso, Antonio Palleschi, Lorenzo Stella, Chiara Baldini, Fernando Formaggio, Claudio Toniolo and Basilio Pispisa. *Monitoring peptide folding by Time-Resolved Spectroscopies: the effect of a single Gly to Aib substitution*. In "Peptides for Youth, Proceeding of the 20th American Peptide Society Symposium", E. Escher, W. D. Lubell and S. Del Valle (Eds), **2009**, 611, 47-48.
12. Mariano Venanzi, Emanuela Gatto, Gianfranco Bocchinfuso, Antonio Palleschi, Lorenzo Stella, Chiara Baldini, Fernando Formaggio, Claudio Toniolo and Basilio Pispisa. *Antimicrobial peptides chelating lanthanide ions: the case of Trichogin GAIV analogs and Terbium(III)*. In "Peptides for Youth, Proceeding of the 20th American Peptide Society Symposium", E. Escher, W. D. Lubell and S. Del Valle (Eds), **2009**, 611, 43-44.
13. Gatto E, Stella L, Bocchinfuso G, Palleschi A, Formaggio F, Toniolo C, Venanzi M. *Trichogin GA IV is able to bind Ca(II) and lanthanide ions*. In: Peptides 2008: Chemistry of Peptides in Life Science, Technology, and Medicine, Proceedings of the Thirtieth European Peptide Symposium, Hilkka Lankinen (Eds), 2009, pag.338-339.
14. Gatto E, Stella L, Formaggio F, Toniolo C, Venanzi M. *Photocurrent Generation in Peptide-based Self-Assembled Monolayers Functionalized with Electron Transfer Antenna Chromophores*. In: Peptides 2008: Chemistry of Peptides in Life Science, Technology, and Medicine, Proceedings of the Thirtieth European Peptide Symposium, Hilkka Lankinen (Eds), 2009, pag. 430-431.
15. Emanuela Gatto, Alessandro Porchetta, Lorenzo Stella, Ivan Guryanov, Fernando Formaggio, Claudio Toniolo, Bernard Kaptein, Quirinus B. Broxterman, and Mariano Venanzi. *Conformational Effects on the Electron Transfer Efficiency in Peptide Foldamers Based on C^{α,α}-Disubstituted Glycyl Residues*. In "Peptaibiotics" , C. Toniolo and H. Brückner (Eds), John Wiley & Sons, New York, USA, 2008, in corso di stampa.
16. E. Gatto, M. Venanzi, L. Stella, L. Lorenzelli, F. Formaggio, C. Toniolo, and G. Marletta, *Photocurrent generation by self-assembled peptide monolayers on interdigitated gold microelectrodes*, In "Peptides 2006: Proceeding of the 29th European Peptide Symposium", K. Rolka, P. Rekowski and J. Silberring (Eds), 2007, pag. 98-99, Kenes International, Ginevra, Svizzera.
17. E. Gatto, L. Stella, G. Bocchinfuso, A. Palleschi, M. E. Palleschi, F. Formaggio, C. Toniolo, and M. Venanzi *Engineering bioinspired luminescent probes: antimicrobial peptides chelating lanthanide ions*, In "Peptides 2006: Proceeding of the 29th European Peptide Symposium", K. Rolka, P. Rekowski and J. Silberring (Eds), 2007, pag. 96-97, Kenes International, Ginevra, Svizzera.

18. F. Formaggio, I. Guryanov, C. Toniolo, Q. B. Broxterman, B. Kaptein, E. Gatto, A. Palleschi, L. Stella and M. Venanzi. *Directional Electron Transfer in Conformationally Constrained, 3-10-helical, Oligopeptides*, In "Peptides 2006: Proceeding of the 29th European Peptide Symposium", K. Rolka, P. Rekowski and J. Silberring (Eds), 2007, pag. 94-95, Kenes International, Ginevra, Svizzera.
19. B. Pispisa, E. Gatto, M. Venanzi, G. Bocchini, A. Palleschi, L. Stella, F. Formaggio, C. Toniolo. *A Time Resolved Spectroscopic Study on Peptide Folding*, Understanding Biology Using Peptides, S.E. Blondelle (Ed.), APS 2005, pag. 605-606
20. L. Stella, G. Bocchini, E. Gatto, A. Palleschi, M. Venanzi, D. Zavallone, A. Bettio, F. Formaggio, C. Toniolo and B. Pispisa. *Intramolecular Triplet Quenching By Nitroxide Radicals As A Tool For Determining peptide Secondary Structure In Solution* Understanding Biology Using Peptides, S.E. Blondelle (Ed.), APS 2005, pag. 603-604
21. B. Pispisa, E. Gatto, C. Mazzuca, L. Stella, M. Venanzi, A. Palleschi, F. Formaggio, C. Toniolo. *Fluorescent analogs of Trichogin GA IV: a new Insight into the Mechanism of Membrane Permeabilisation*, in M. Chorev & T.K. Sawyer (Eds.), Peptide Revolution: Genomics, proteomics & therapeutics. American Peptide Society, Cardiff (CA), 2004. p.879-880