

Piero Baglioni - Curriculum Vitae**-Present address**

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-Current Position

- 1) Full Professor , Chair of Physical Chemistry, University of Florence, Italy
- 2) MIT affiliate, Department of Nuclear Science and Engineering, MIT, Cambridge, USA

- Positions.

1981-1986: Researcher at the Department of Chemistry, University of Florence
1986: Postdoc at the Department of Chemistry, University of Houston, USA, Prof. Larry Kevan
1987-1989: Visiting scientist/professor at the Dept. of Chemistry, University of Houston, USA, Prof. Larry Kevan;
1987-1994: Associate Professor of Physical-Chemistry at the University of Udine and Florence (1993-1994), Italy
1990: Visiting Professor, The Weizmann Institute of Science, Rehovot, Israel, Prof. D. Goldfarb
1994: Visiting professor, College de France, Paris, Profs. P.G. de Gennes and J. M. di Meglio
1994 - present: Full Professor of Physical Chemistry, University of Florence
2001-2002: Visiting Professor/Research Fellow, Dept. of Nuclear Engineering, MIT, Cambridge, Prof. S.-H. Chen
2004 – present: MIT affiliate, Department of Nuclear Science and Engineering, MIT, Cambridge

- Degrees

1977: *Laurea* in Chemistry: 110/110 with honors.

- Major International Award

- 2016 * Overbeek Medal, European Colloids and Interface Society
- 2016 * Bonino Medal, Italian Chemical Society
- 2016 * Chen Distinguished Lectureship on Neutron Science and Technology, Taiwan Ministry of Science and Technology, National Tsing Hua University
- 2012 * Catedra de Fisica, University of San Luis Potosi, Mexico
- 2011 * Lifetime achievements for the contribution to Colloids and Interface Science (JCIS).
- 2010 * Caballero Aguila (The most prestigious recognition from National agency for conservation (Mexico).
- 2004 * Gran Prix for Innovation Award.
- 2002 * Rhodia Prize, European Colloids and Interface Society (ECIS).

- Services

- 1) Founder and Director of the Italian Center for Colloids and Interfaces, CSGI (1993 – present).
- 2) Chairman of the Department of Chemistry, University of Florence (2001 – 2003);
- 3) President of the Italian Society for Colloid and Interfaces, GICI (2001-2006); President of the Italian Physical Chemistry Division of the Italian Chemical Society (2010-2012).
- 4) Coordinator of the National Projects: CNR-Cultural Heritage, CNR-Materials (MSTA-II), PRIN (two years project): PRIN 1995; 1998; 2001; 2003; 2006; 2008, 2010, TemArt 2011, FIRB 2007, 2009, 2010.
- 5) Coordinator(C)/participant(P) of International Projects: HCM(C), PECO(C), JOULE(P), LIFE(C), LEAPFROG(P), POLYTECH(P), AMNA(P), COMBIO(P), NANOFORART(C), NANORESTART(C).
- 6) Member of international reviewing panels of the European Union (Human Capital and Mobility (1998-2001), National Science Foundation (2002), European Science Foundation (EURY 2004-2006), Laboratoire Leon

Brillouin (LLB, 1999); Hahn Meitner Institute (2002-2006); Helmholtz Zentrum (2009-2014); ICSM-CEA (2008-2010, 2012-2014); National Institute for Standard and Technology (NIST) (2008-11); Oak Ridge Ntl Lab (2009-2010); Member of Levi Montalcini panel (MiUR) for Young Talented Scientist (2012-).

- 7) Reviewer for PCCP, Journal of Physical Chemistry A, B, C, Letters; Langmuir; Journal of American Chemical Society; Macromolecules; Journal of Colloid and Interface Chemistry; Soft Matter; Advanced Materials; Nanoscale; Physical Review E; Physical Review Letters; etc..
- 8) Member of several National and International Academies/Societies: a) European Academy of Science; b) Royal Academy of Art and Science in Göteborg, Sweden; c) Royal Society of Chemistry; d) International Institute for Conservation of Historic & Artistic Works; e) American Chemical Society; f) European Colloids and Interface Society; g) European Society for Neutron Spectroscopy; h) Società Chimica Italiana; i) Accademia delle Arti del Disegno (the oldest Academy in Italy).

- Editorial board

Soft Matter, Royal Society of Chemistry; Journal Physical Chemistry Chemical Physics, PCCP, Royal Society of Chemistry; Journal of Colloid and Interface Science, Elsevier; The European Physical Journal E (EDP Science, Società Italiana Fisica, Springer); Langmuir, American Chemical Society; Colloids and Surface A, Springer

- Publications, Hindex = 52, total citations = 11571 (September 2016)

Publications (ISI): (444 articles, May 2016), 19 feature/review articles, 381 articles in peer journals, 13 papers in international refereed conference proceedings, 22 chapters of books/encyclopedia, 10 articles in popular journals, 23 patents.

Books: Nanotechnologies in the Conservation of Cultural Heritage: A compendium of materials and techniques, Springer (2014); Nanoscience for the Conservation of Works of Art, RSC (2013); Dynamics of water and glass-forming liquids, IOP (2012); Current Trends in Nanoscience. From Materials to Applications, Elsevier (2006); Photocatalysis, Environment and Construction Materials, Rilem (2007); Topics in the Application of Scattering Methods to Investigate the Structure and Dynamics of Soft Condensed Matter, IOP (2006); Physical Chemistry Chemical Physics - Special Issue Colloid and Interface Science (2004).

- Recent financial support (funding ID)

The scientific activity was developed for about 50% as fundamental research (novel phospholiponucleosides, molecular recognition, water dynamics, structure and dynamics of complex fluids); applied research (about 20%), and new methods for the conservation of cultural heritage (about 30%). The most important grants are:

* Multifunctional microsystems for diagnostic (MiUR-FIRB-RBNE01ZB7A)	2003-2007
* A New Competitive Liquid Biofuel for Heating (ENK5-CT-2002-00690)	2003-2006
* Addressable Molecular Node Assembly (NMP4-CT-2004-013575)	2005-2008
* Leadership for European Apparel Production from Research (NMP2-CT-2005-515810)	2005-2009
* Polyfunctional Technical Textiles against Natural Hazards (NMP2-CT-2006-026789)	2006-2010
* National Initiative on Nanobiosciences (RBPR05JH2P_007)	2007-2010
* Advanced encapsulation technology for sustainable detergency (FP7-PEOPLE-2009)	2010-2013
* Advanced Methodologies for the Conservation of Cultural Heritage (Regione Toscana)	2010-2012
* Nano-materials fort conservation – Nanoforart (FP7-ENV-NMP-2011-282816)	2011-2014
* NANOMaterials for the REStoration of works of ART - NANORESTART (H2020-NMP-21-2014-646063)	2015-2018

- Promoting and mentoring students and young researchers

During two decades PB trained several students (97 master, 29 PhD). Many of them are professors in Italian or foreign universities, others have positions in national and international industries.

- **Conferences organization.** PB considered the organization of International Conferences as a service to the scientific community. In the past 10 years PB has organized 6 international conference/workshop and being in the in-ternational advisory committee of 14. Organized conferences:

- International workshop, Self-Assembly – the Future, Massa Marittima, Italy (2002).
- International conference, European Colloid & Interface Science Society (ECIS), Florence, Italy (2003).

- International conference, European Material Research Society, Symposium A: Current Trends in Nanoscience - From Material to Applications, Strasbourg, France (2005).
- International workshop, Topics in the Application of the Scattering Methods to Investigate the Structure and the Dynamics of Soft Condensed Matter, Fiesole, Italy (2006).
- International conference, Photocatalysis, Environment and Construction Materials, Florence, Italy (2007).
- International workshop, Dynamics of water and glass-forming liquids, Fiesole, Italy (2010).
- International conference, Structure and Dynamics of Supercooled Water and Other Glassy Materials, Palermo (2015)

- International Press on the research activity of Piero Baglioni.

- 1) 128 Articles on Newspapers (as an example: New York Times; El Pais, Le Monde, Jurnalul National, La Stampa, Le nouvelle Observateur, Reforma, Gente, Panorama, Espress, Neue Zürcher Zeitung, Die Welt, Frankfurter Allgemeine; Corriere della Sera; Sole24ore; Repubblica; La Nazione; etc.).
- 2) TV documentaries: Dwelle TV (Germany), Tomorrow Today (USA), New England Cable (UK), Discovery Channel (USA), Fox news (USA), Canal 5 plus (France), CanalC2 (France), Rai 3 (Italy), etc.. Movies : Welcome to the nano-world, produced for France 5 EBU-UER, Centre National de Cinematographie, Eurovision Science, and the European Commission; NIST Colloquium 2010.
- 3) Scientific highlights: Chemical Engineering News, January 1994 p.35; Nature Science Update, July 2001 "Nanotechnology restores flaking frescoes"; Nature Science Update, October 2002 "Nanoparticles save paper"; Nature Materials Update, August 2003; "Restoring the conserved, micellar systems remove damaging polymer layers from works of art"; Nature Nanotechnology, May 2007, "Art Restoration: Keeping it clean"; Nature, September 2007; "Magnets harnessed to clean artwork: Sponges filled with iron nanoparticles make lifting dirt easy"; Nature Nanotechnology, October 2009; "Nanocontainers: Clean and spotless art"; Nature Materials, vol. 8, page 446, June 2009, "Fine art gets a nano sponge bath"; Chemical Engineering News, October 2007, vol. 85 #42, p. 38 ; Le Science, Scientific American; NIST Colloquium Series 2010; etc..

- Scientific Activity.

Piero Baglioni is the major Italian contributor to "Soft condensed Matter", author of more than 400 publications that nicely illustrate the diversity of his scientific interests, mostly rooted in the field of Nanosciences, but oriented towards applications in various and apparently very distant areas. Piero Baglioni produced several innovations in the field of both inorganic and organic colloids. In particular, he studied the effect of ion scavenging groups such as cage molecules (calixarenes, cryptands etc.) at air-water interface and in micelles and microemulsions. He contributed to the understanding of the Hofmeister series, showing the direct interaction of co-ions at the surface of several systems (micelles, cyclodextrins, wool fibers, gels, proteins). He studied novel phospholipids derivatives, where nucleosides are inserted in short phospholipids. Association of alkyl chains with polar head groups containing nucleosides bring together the two worlds of bio-mimetism of supramolecular systems and recognition process as in DNA and RNA. The engineered distributions of π - π interactions and hydrogen bonding combined with the amphiphilic behavior induce a rich phase diagram: micelles, wormlike micelles, microemulsions and lyotropic liquid crystals, fibers, helices and stacks can be easily obtained and addressed to specific applications. He has highlighted for the first time that these systems show a recognition pattern (in water solutions) between complementary bases similarly to DNA and RNA (Watson-Crick molecular recognition), opening a new route to the pharmacological and gene delivery applications, (see Chem.Eng.News 2007, vol. 85, #35, p.12). He devised several innovative chemical pathways for the synthesis and the functionalization of nanoparticles, chemical gels and ibrid systems.

He is author of several patents concerning the preparation of aqueous suspensions at high concentration of particulate, the therapy and photodynamic diagnosis of tumors, the conservation of cultural heritage, the setup of a new process for the treatment of textile industrial waste, the production of emulsions from Bio Crude Oil (oil from biomass pyrolysis, green fuels) for energy production using common engines, the preparation of nanoparticles and novel nano-coatings via flame-spraying, magnetoliposomes for drug delivery and targeting and so on. For these studies PB received several international recognitions and prizes. Summarizing, the major breakthroughs achieved during his career are:

1. A fundamental understanding of the interplay between complementary bases recognition and the self-aggregation properties typical of phospholipids that allowed the control of high hierarchical structures in water;

2. The understanding of the setting process of cement pastes at the nanoscale that opens the possibility of producing cements with enhanced properties;
3. Nanoparticles as hydroxides, oxides, carbonates and sulphates from Mg, Ca, Sr, Ba, Zr, Zn, for different applications, synthesised and functionalised for the first time. The synthesis and functionalization of novel magnetic nanoparticle hybrids for drug targeting and delivering. In several cases the synthetic pathway used for nanoparticles became a standard.
4. New methods for the conservation of cultural heritage. He developed methods applied worldwide for mural paintings consolidation; paper de-acidification and canvas conservation; polymers removal from artefacts usually damaged from previous restorations; waterlogged wood deacidification; oil and easel paintings cleaning. In particular the innovative methods proposed by Piero Baglioni are used world wide and can be schematically grouped in the following areas:
 - a) Restoration and conservation of the pictorial surface of frescoes.
 - b) Removal the organic contaminants by means of micelles and microemulsions.
 - c) Consolidation of the wall paint structure by means of autogenic mortars.
 - d) Salt-induced degradation.
 - e) Innovative process for paper deacidification using nanoparticles of calcium hydroxide.
 - f) Innovative process for wood de-acidification based on calcium and magnesium hydroxide and carbonate nanoparticles in non aqueous solvents.
 - g) Nanosponges, chemical and physical gels for the confinement of micellar system and microemulsions for: detergency, drug delivery, controlled release delivery with spatial, chemical, and kinetic control.

PIERO BAGLIONI – LIST OF PUBLICATIONS (June 2016)

1. Poggi, G.; Toccafondi, N.; Chelazzi, D.; Canton, P.; Giorgi, R.; Baglioni, P. - Calcium hydroxide nanoparticles from solvothermal reaction for the deacidification of degraded waterlogged wood. *Journal of Colloid and Interface Science* 2016, 473, 1-8.
2. Ambrosi, M.; Fratini, E.; Baglioni, P.; Vannucci, C.; Bartolini, A.; Pintens, A.; Smets, J. - Microcapsules for Confining Fluids: Prediction of Shell Stability from Advanced SAXS Investigations. *Journal of Physical Chemistry C* 2016, 120, 13514-13522.
3. Borsacchi, S.; Geppi, M.; Macchi, S.; Ninham, BW.; Fratini, E.; Ambrosi, M.; Baglioni, P.; Lo Nostro, P. - Phase transitions in hydrophobe/phospholipid mixtures: hints at connections between pheromones and anaesthetic activity. *Physical Chemistry Chemical Physics* 2016, 18, 15375-15383.
4. Sebastiani, M.; Moscatelli, R.; Ridi, F.; Baglioni, P.; Carassiti, F. - High-resolution high-speed nanoindentation mapping of cement pastes: Unravelling the effect of microstructure on the mechanical properties of hydrated phases. *Materials & Design* 2016, 97, 372-380.
5. Le, Peisi; Fratini, E.; Ito, Kanae; Wang, Z.; Mamontov, E.; Baglioni, P.; Chen, SH. - Dynamical behaviors of structural, constrained and free water in calcium- and magnesium-silicate-hydrate gels. *Journal of Colloid and Interface Science* 2016, 469, 157-163.
6. Del Buffa, S.; Fratini, E.; Ridi, F.; Faraone, A.; Baglioni, P. - State of Water in Hydrating Tricalcium Silicate Pastes: The Effect of a Cellulose Ether. *Journal of Physical Chemistry C* 2016, 120, 7612-7620.
7. Carretti, E.; Mazzini, V.; Fratini, E.; Ambrosi, M.; Dei, LG.; Baglioni, P.; Lo Nostro, P. - Structure and rheology of gel nanostructures from a vitamin C-based surfactant. *Physical Chemistry Chemical Physics* 2016, 18, 8865-8873.
8. Andriulo, F.; Braovac, S.; Kutzke, H.; Giorgi, R.; Baglioni, P. - Nanotechnologies for the restoration of alum-treated archaeological wood. *Applied Physics A-Materials Science & Processing* 2016, 122.

9. Mallamace, F.; Corsaro, C.; Mallamace, D.; Vasi, S.; Vasi, C.; Baglioni, P.; Buldyrev, SV.; Chen, SH.; Stanley, HE. - Energy landscape in protein folding and unfolding. *Proceedings of the National Academy of Sciences of the United States of America* 2016, 113, 3159-3163.
10. Chiang, WS.; Fratini, E.; Baglioni, P.; Georgi, D.; Chen, JH.; Liu, Y. - Methane Adsorption in Model Mesoporous Material, SBA-15, Studied by Small-Angle Neutron Scattering. *Journal of Physical Chemistry C* 2016, 120, 4354-4363.
11. Poggi, G.; Sistach, MC.; Marin, E.; Garcia, JF.; Giorgi, R.; Baglioni, P. - Calcium hydroxide nanoparticles in hydroalcoholic gelatin solutions (GeolNan) for the deacidification and strengthening of papers containing iron gall ink. *Journal Of Cultural Heritage* 2016, 18, 250-257.
12. Baglioni, M.; Bartoletti, A.; Bozec, L.; Chelazzi, D.; Giorgi, R.; Odlyha, M.; Pianorsi, D.; Poggi, G.; Baglioni, P. - Nanomaterials for the cleaning and pH adjustment of vegetable-tanned leather. *Applied Physics A-Materials Science & Processing* 2016, 122.
13. Tonelli, M.; Martini, F.; Calucci, L.; Fratini, E.; Geppi, M.; Ridi, F.; Borsacchi, S.; Baglioni, P. - Structural characterization of magnesium silicate hydrate: towards the design of eco-sustainable cements. *Dalton Transactions* 2016, 45, 3294-3304.
14. Nappini, S.; Fogli, S.; Castroflorio, B.; Bonini, M.; Bombelli, FB.; Baglioni, P. - Magnetic field responsive drug release from magnetoliposomes in biological fluids. *Journal of Materials Chemistry B* 2016, 4, 716-725.
15. Montis, C.; Gerelli, Y.; Fragneto, G.; Nylander, T.; Baglioni, P.; Berti, D. - Nucleolipid bilayers: A quartz crystal microbalance and neutron reflectometry study. *Colloids and Surfaces B-Biointerfaces* 2016, 137, 203-213.
16. Nappini, S.; Magnano, E.; Bondino, F.; Pis, I.; Barla, A.; Fantechi, E.; Pineider, F.; Sangregorio, C.; Vaccari, L.; Venturelli, L.; Baglioni, P. - Surface Charge and Coating of CoFe₂O₄ Nanoparticles: Evidence of Preserved Magnetic and Electronic Properties. *Journal of Physical Chemistry C* 2015, 119, 25529-25541.
17. Tatini, D.; Tempesti, P.; Ridi, F.; Fratini, E.; Bonini, M.; Baglioni, P. - Pluronic/gelatin composites for controlled release of actives. *Colloids and Surfaces B-Biointerfaces* 2015, 135, 400-407.
18. Baglioni, P.; Bonelli, N.; Chelazzi, D.; Chevalier, A.; Dei, LG.; Domingues, J.; Fratini, E.; Giorgi, R.; Martin, M. - Organogel formulations for the cleaning of easel paintings. *Applied Physics A-Materials Science & Processing* 2015, 121, 857-868.
19. Lo Nostro, P.; Ninham, BW.; Carretti, E.; Dei, LG.; Baglioni, P. - Specific anion effects in *Artemia salina*. *Chemosphere* 2015, 135, 335-340.
20. Li, H.; Zhang, LL.; Yi, Z.; Fratini, E.; Baglioni, P.; Chen, SH. - Translational and rotational dynamics of water contained in aged Portland cement pastes studied by quasi-elastic neutron scattering. *Journal of Colloid and Interface Science* 2015, 452, 2-7.
21. Montis, C.; Castroflorio, B.; Mendoza, M.; Salvatore, A.; Berti, D.; Baglioni, P. - Magnetocubosomes for the delivery and controlled release of therapeutics. *Journal of Colloid and Interface Science* 2015, 449, 317-326.
22. Del Buffa, S.; Bonini, M.; Ridi, F.; Severi, M.; Losi, P.; Volpi, S.; Al Kayal, T.; Soldani, G.; Baglioni, P. - Design and characterization of a composite material based on Sr(II)-loaded clay nanotubes included within a biopolymer matrix. *Journal of Colloid and Interface Science* 2015, 448, 501-507.

23. Peruzzi, N.; Lo Nostro, P.; Ninham, B.W.; Baglioni, P. - The Solvation of Anions in Propylene Carbonate. *Journal of Solution Chemistry* 2015, 44, 1224-1239.
24. Baglioni, P.; Carretti, E.; Chelazzi, D. - Nanomaterials in art conservation. *Nature Nanotechnology* 2015, 10, 287-290.
25. Raudino, M.; Selvolini, G.; Montis, C.; Baglioni, M.; Bonini, M.; Berti, D.; Baglioni, P. - Polymer Films Removed from Solid Surfaces by Nanostructured Fluids: Microscopic Mechanism and Implications for the Conservation of Cultural Heritage. *Acs Applied Materials & Interfaces* 2015, 7, 6244-6253.
26. Del Buffa, S.; Grifoni, E.; Ridi, F.; Baglioni, P. - The effect of charge on the release kinetics from polysaccharide-nanoclay composites. *Journal Of Nanoparticle Research* 2015, 17.
27. Arteta, M.Y.; Berti, D.; Montis, C.; Campbell, R.A.; Eriksson, C.; Clifton, L.A.; Skoda, M.W.A.; Soltwedel, O.; Koutsioubas, A.; Baglioni, P.; Nylander, T. - On the formation of dendrimer/nucleolipids surface films for directed self-assembly. *Soft Matter* 2015, 11, 1973-1990.
28. Baglioni, M.; Benavides, Y.J.; Berti, D.; Giorgi, R.; Keiderling, U.; Baglioni, P. - An amine-oxide surfactant-based microemulsion for the cleaning of works of art. *Journal of Colloid and Interface Science* 2015, 440, 204-210.
29. Baglioni, P.; Chelazzi, D.; Giorgi, R. - *Nanotechnologies in the Conservation of Cultural Heritage - A compendium of materials and techniques*, Springer, Heidelberg 2015
30. Montis, C.; Castroflorio, B.; Mendoza, M.; Salvatore, A.; Berti, D.; Baglioni, P. - Magnetocubosomes for the delivery and controlled release of therapeutics. *Journal of colloid and interface science*, 2015, 449, 317-326.
31. Del Buffa, S.; Bonini, M.; Ridi, F.; Severi, M.; Losi, P.; Volpi, S.; Al Kayal, T.; Soldani, G.; Baglioni, P. - Design and characterization of a composite material based on Sr(II)-loaded clay nanotubes included within a biopolymer matrix. *Journal of colloid and interface science*, 2015, 448, 501-7.
32. Baglioni, P.; Carretti, E.; Chelazzi, D. - Nanomaterials in art conservation. *Nature Nanotechnology*, 2015, 10, 4, 287-290.
33. Raudino, M.; Selvolini, G.; Montis, C.; Baglioni, M.; Bonini, M.; Berti, D.; Baglioni, P. - Polymer Films Removed from Solid Surfaces by Nanostructured Fluids: Microscopic Mechanism and Implications for the Conservation of Cultural Heritage. *ACS Applied Materials & Interfaces*, 2015, 7, 11, 6244-6253.
34. Arteta, M.Y.; Berti, D.; Montis, C.; Campbell, R.A.; Eriksson, C.; Clifton, L.A.; Skoda, M.W.A.; Soltwedel, O.; Koutsioubas, A.; Baglioni, P.; Nylander, T. - On the formation of dendrimer/nucleolipids surface films for directed self-assembly. *Soft Matter*, 2015, 11, 10, 1973-1990.
35. Baglioni, M.; Benavides, Y.J.; Berti, D.; Giorgi, R.; Keiderling, U.; Baglioni, P. - An amine-oxide surfactant-based microemulsion for the cleaning of works of art. *Journal of Colloid And Interface Science*, 2015, 440, 204-210.
36. Baglioni, P.; Chelazzi, D.; Giorgi, R. - *Nanotechnologies in the Conservation of Cultural Heritage - A compendium of materials and techniques*, Springer, Heidelberg 2015.

37. Bellissima, F.; Bonini, M.; Giorgi, R.; Baglioni, P.; Barresi, G.; Mastromei, G.; Perito, B. – Antibacterial activity of silver nanoparticles grafted on stone surface. *Environmental science and pollution research international*, 2014, 21, 13278-13286.
38. Giambi, F.; Carretti, E.; Dei, L.; Baglioni, P. – Micro-layers of polystyrene film preventing metal oxidation: implications in cultural heritage conservation. *Applied Physics A-Materials Science & Processing*, 2014, 117, 2025-2032.
39. Arteta, MY.; Berti, D.; Montis, C.; Campbell, RA.; Clifton, LA.; Skoda, MWA.; Soltwedel, O.; Baglioni, P.; Nylander, T. – Molecular recognition of nucleic acids by nucleolipid/dendrimer surface complexes. *SOFT MATTER*, 2014, 10, 8401-8405.
40. Mallamace, F.; Baglioni, P.; Corsaro, C.; Chen, SH.; Mallamace, D.; Vasi, C.; Stanley, HE. – The influence of water on protein properties. *The Journal of chemical physics*, 2014, 141, 165104.
41. Ambrosi, M.; Santoni, S.; Giorgi, R.; Fratini, E.; Toccafondi, N.; Baglioni, P. – High-performance and anti-stain coating for porcelain stoneware tiles based on nanostructured zirconium compounds. *JOURNAL OF COLLOID AND INTERFACE SCIENCE*, 2014, 432, 117-127.
42. Wang, Z.; Fratini, E.; Li, MD.; Le, PS.; Mamontov E.; Baglioni, P.; Chen, SH. – Hydration-dependent dynamic crossover phenomenon in protein hydration water. *PHYSICAL REVIEW E*, 2014, 90, DOI: 10.1103/PhysRevE.90.042705
43. Baglioni, M.; Raudino, M.; Berti, D.; Keiderling, U.; Bordes, R.; Holmberg, K.; Baglioni, P. – Nanostructured fluids from degradable nonionic surfactants for the cleaning of works of art from polymer contaminants. *SOFT MATTER*, 2014, 10, 6798-6809.
44. Chelazzi, D.; Chevalier, A.; Pizzorusso, G.; Giorgi, R.; Menu, M.; Baglioni, P. – Characterization and degradation of poly(vinyl acetate)-based adhesives for canvas paintings. *POLYMER DEGRADATION AND STABILITY*, 2014, 107, 314-320.
45. Chiang, WS.; Ferraro, G.; Fratini, E.; Ridi, F.; Yeh, YQ.; Jeng, US.; Chen, SH.; Baglioni, P. – Multiscale structure of calcium- and magnesium-silicate-hydrate gels. *JOURNAL OF MATERIALS CHEMISTRY A*, 2014, 2, 12991-12998.
46. Carretti, E.; Matarrese, C.; Fratini, E.; Baglioni, P.; Dei, L. – Physicochemical characterization of partially hydrolyzed poly(vinyl acetate)-borate aqueous dispersions. *SOFT MATTER*, 2014, 10, 4443-4450.
47. Montis, C.; Sostegni, S.; Milani, S.; Baglioni, P.; Berti, D. – Biocompatible cationic lipids for the formulation of liposomal DNA vectors. *SOFT MATTER*, 2014, 10, 4287-4297.
48. Wang, Z.; Chiang, WS.; Le, PS.; Fratini, E.; Li, MD.; Alatas, A.; Baglioni, P.; Chen, SH. - One role of hydration water in proteins: key to the “softening” of short time intraprotein collective vibrations of a specific length scale. *SOFT MATTER*, 2014, 10, 4298-4303.
49. Faraone, A.; Fratini, E.; Garai, S.; Muller A.; Tyagi, M.; Jenkins T.; Mamontov, E.; Paul, RL.; Copley JRD.; Baglioni, P. – Incoherent Quasielastic Neutron Scattering Study of the Relaxation Dynamics in Molybdenum-Oxide Keplerate-Tye Nanocages. *JOURNAL OF PHYSICAL CHEMISTRY C*, 2014, 118, 13300-13312.
50. Banchelli, M.; Nappini, S.; Montis, C.; Bonini, M.; Canton, P.; Berti, D.; Baglioni, P. – Magnetic nanoparticle clusters as actuators of ssDNA release. *Physical Chemistry Chemical Physics*, 2014, 16, 10023-10031.

51. Conti, A.; Poggi, G.; Baglioni, P.; De Luca, F. – On the macromolecular cellulosic network of paper: changes induced by acid hydrolysis studied by NMR diffusometry and relaxometry. *Physical Chemistry Chemical Physics*, 2014, 16, 8409-8417.
52. Ridi, F.; Bonini, M.; Baglioni, P. – Magneto-responsive nanocomposites: Preparation and integration of magnetic nanoparticles into films, capsules, and gels. *ADVANCES IN COLLOID AND INTERFACE SCIENCE*, 2014, 207, (SI) 3-13.
53. Venturini, C.; Pomposi, C.; Ambrosi, M.; Carretti, E.; Fratini, E.; Lo Nostro, P.; Baglioni, P. – Effect of the Alkyl Chains and of the Headgroups on the Thermal Behavior of Ascorbic Acid Surfactants Mixtures. *JOURNAL OF PHYSICAL CHEMISTRY B*, 2014, 118, 3053-3062.
54. Baglioni, P.; Berti, D.; Bonini, M.; Carretti, E.; Dei, L.; Fratini, E.; Giorgi, R. – Micelle, microemulsions, and gels for the conservation of cultural heritage. *ADVANCES IN COLLOID AND INTERFACE SCIENCE*, 2014, 205, 361-371.
55. Poggi, G.; Toccafondi, N.; Melita LN.; Knowles, JC.; Bozec, L.; Giorgi, R.; Baglioni, P. – Calcium hydroxide nanoparticles for the conservation of cultural heritage: new formulations for the deacidification of cellulose-based artifacts. *Applied Physics A-Materials Science & Processing*, 2014, 114, 685-693.
56. Dominigues, J.; Bonelli, N.; Giorgi, R.; Baglioni, P. – Chemical semi-IPN hydrogels for the removal of adhesives from canvas paintings. *Applied Physics A-Materials Science & Processing*, 2014, 114, 705-710.
57. Baglioni, P.; Chelazzi, D.; Giorgi, R.; Carretti, E.; Toccafondi, N.; Jaidar, Y. - Commercial Ca(OH)(2) nanoparticles for the consolidation of immovable works of art. *Applied Physics A-Materials Science & Processing*, 2014, 114, 723-732.
58. Natali, I.; Tempesti, P.; Carretti, E.; Potenza, M.; Sansoni, S.; Baglioni, P.; Dei, L. - Aragonite Crystals Grown on Bones by Reaction of CO₂ with Nanostructured Ca(OH)(2) in the Presence of Collagen. Implications in Archaeology and Paleontology. *Langmuir*, 2014, 30, 660-668.
59. Montis, C.; Baglioni, P.; Berti, D. - Monitoring the interaction of nucleolipoplexes with model membranes. *SOFT MATTER*, 2014, 10, 39-43.
60. Sandin, P.; Bombelli FB.; Castroflorio, B.; Muller, C.; Obermeier, J.; Karlsson, G.; Edwards, K.; Baglioni, P.; Berti, D. –Diastereoselective self-assembly of clofarabine lipids. *NEW JOURNAL OF CHEMISTRY*, 2014, 38, 5247-5253.
61. Tempesti, P.; Bonini, M.; Ridi, F.; Baglioni, P. - Magnetic polystyrene nanocomposites for the separation of oil and water. *Journal of Materials Chemistry A*, 2014, 2, 1980-1984.
62. Ridi, F.; Fratini, E.; Baglioni, P. - Fractal Structure Evolution during Cement Hydration by Differential Scanning Calorimetry: Effect of Organic Additives. *Journal Of Physical Chemistry C*, 2013, 117, 25478-25487.
63. Cappelletto, E.; Borsacchi, S.; Geppi, M.; Ridi, F.; Fratini, E.; Baglioni, P. - Comb-Shaped Polymers as Nanostructure Modifiers of Calcium Silicate Hydrate: A Si-29 Solid-State NMR Investigation. *Journal of Physical Chemistry C*, 2013, 117, 22947-22953.
64. Bonini, M.; Berti, D.; Baglioni, P. - Nanostructures for magnetically triggered release of drugs and biomolecules. *Current Opinion in Colloid & Interface Science*, 2013, 18, 459-467.

65. Baglioni, P.; Chelazzi, D. (editors) – Nanoscience for the Conservation of Works of Art. RSC Publishing (RSC Nanoscience & Nanotechnology n. 28) 2013. ISBN 978-1-84973-566-7.
66. Carretti, E.; Chelazzi, D.; Rocchigiani, G.; Baglioni, P.; Poggi, G.; Dei, L. - Interactions between Nanostructured Calcium Hydroxide and Acrylate Copolymers: Implications in Cultural Heritage Conservation. *Langmuir: the ACS journal of surfaces and colloids* 2013, 29, 9881-90.
67. Chiang, W.S.; Fratini, E.; Ridi, F.; Lim, S.H.; Yeh, Y.Q.; Baglioni, P.; Choi, S.M.; Jeng, U.S.; Chen, S.H. - Microstructural changes of globules in calcium-silicate-hydrate gels with and without additives determined by small-angle neutron and X-ray scattering. *Journal of Colloid and Interface Science* 2013, 398, 67-73.
68. Bellissima, F.; Carta, F.; Innocenti, A.; Scozzafava, A.; Baglioni, P.; Supuran, C.T.; Berti, D. - Structural modulation of the biological activity of gold nanoparticles functionalized with a carbonic anhydrase inhibitor. *European Physical Journal E* 2013, 36, article number 48.
69. Baglioni, P.; Chelazzi, D.; Giorgi, R.; Poggi, G. - Colloid and Materials Science for the Conservation of Cultural Heritage: Cleaning, Consolidation, and Deacidification. *Langmuir* 2013, 29, 5110-5122.
70. Montis, C.; Fragneto, G.; Nylander, T.; Baglioni, P.; Berti, D. - Nucleolipid bilayers: A neutron reflectometry and QCM study.
71. Abstracts of Papers of the American Chemical Society 2013, 245.
72. Fratini, E.; Faraone, A.; Ridi, F.; Chen, S.H.; Baglioni, P. - Hydration Water Dynamics in Tricalcium Silicate Pastes by Time-Resolved Incoherent Elastic Neutron Scattering. *Journal of Physical Chemistry C* 2013, 117, 7358-7364.
73. Ridi, F.; Fratini, E.; Alfani, R.; Baglioni, P. - Influence of acrylic superplasticizer and cellulose-ether on the kinetics of tricalcium silicate hydration reaction. *Journal of Colloid and Interface Science* 2013, 395, 68-74.
74. Domingues, J.A.L.; Bonelli, N.; Giorgi, R.; Fratini, E.; Gorel, F.; Baglioni, P. - Innovative Hydrogels Based on Semi-Interpenetrating p(HEMA)/PVP Networks for the Cleaning of Water-Sensitive Cultural Heritage Artifacts. *Langmuir* 2013, 29, 2746-2755.
75. Chelazzi, D.; Poggi, G.; Jaidar, Y.; Toccafondi, N.; Giorgi, R.; Baglioni, P. - Hydroxide nanoparticles for cultural heritage: Consolidation and protection of wall paintings and carbonate materials. *Journal of Colloid and Interface Science* 2013, 392, 42-49.
76. Wang, Z.; Bertrand, C.E.; Chiang, W.S.; Fratini, E.; Baglioni, P.; Alatas, A.; Alp, E.E.; Chen, S.H. - Inelastic X-ray Scattering Studies of the Short-Time Collective Vibrational Motions in Hydrated Lysozyme Powders and Their Possible Relation to Enzymatic Function. *Journal of Physical Chemistry B* 2013, 117, 1186-1195.
77. Li, H.; Fratini, E.; Chiang, W.S.; Baglioni, P.; Mamontov, E.; Chen, S.H. - Dynamic behavior of hydration water in calcium-silicate-hydrate gel: A quasielastic neutron scattering spectroscopy investigation. *Physical Review E* 2012, 86, DOI: 10.1103/PhysRevE.86.061505.
78. Peruzzi, N.; Ninham, B.W.; Lo Nostro, P.; Baglioni, P. - Hofmeister Phenomena in Nonaqueous Media: The Solubility of Electrolytes in Ethylene Carbonate. *Journal of Physical Chemistry B* 2012, 116, 14398-14405.
79. Ambrosi, M.; Fratini, E.; Canton, P.; Dankesreiter, S.; Baglioni, P. - Bottom-up/top-down synthesis of stable zirconium hydroxide nanophases. *Journal of Materials Chemistry* 2012, 22, 23497-23505.

80. Baglioni, M.; Berti, D.; Teixeira, J.; Giorgi, R.; Baglioni, P. - Nanostructured Surfactant-Based Systems for the Removal of Polymers from Wall Paintings: A Small-Angle Neutron Scattering Study. *Langmuir* 2012, 28, 15193-15202.
81. Russo, E.; Al Kayal, T.; Nappini, S.; Berti, D.; Bucciattini, M.; Baglioni, P.; Stefani, M. - A structural and photophysical study on lysozyme aggregation in physiological conditions induced by negatively charged liposomes. *Febs Journal* 2012, 279, 458-459.
82. Ridi, F.; Fratini, E.; Luciani, P.; Winnefeld, F.; Baglioni, P. - Tricalcium Silicate Hydration Reaction in the Presence of Comb-Shaped Superplasticizers: Boundary Nucleation and Growth Model Applied to Polymer-Modified Pastes. *Journal of Physical Chemistry C* 2012, 116, 10887-10895.
83. Montis, C.; Milani, S.; Berti, D.; Baglioni, P. - Complexes of nucleolipid liposomes with single-stranded and double-stranded nucleic acids. *Journal of Colloid and Interface Science* 2012, 373, 57-68.
84. Angione, M.D.; Cotrone, S.; Magliulo, M.; Mallardi, A.; Altamura, D.; Giannini, C.; Cioffi, N.; Sabbatini, L.; Fratini, E.; Baglioni, P.; Scamarcio, G.; Palazzo, G.; Torsi, L. - Interfacial electronic effects in functional bilayers integrated into organic field-effect transistors. *Proceedings of the National Academy of Sciences of the United States of America* 2012, 109, 6429-6434.
85. Chiang, W.S.; Fratini, E.; Baglioni, P.; Liu, D.Z.; Chen, S.H. - Microstructure Determination of Calcium-Silicate-Hydrate Globules by Small-Angle Neutron Scattering. *Journal of Physical Chemistry* 2012, 116, 5055-5061.
86. Pizzorusso, G.; Fratini, E.; Eiblmeier, J.; Giorgi, R.; Chelazzi, D.; Chevalier, A.; Baglioni, P. - Physicochemical Characterization of Acrylamide/Bisacrylamide Hydrogels and Their Application for the Conservation of Easel Paintings. *Langmuir* 2012, 28, 3952-3961.
87. Chen, S.H.; Baglioni, P. - Dynamic crossover phenomena in water and other glass-forming liquids PREFACE. *Journal of Physics-Condensed Matter* 2012, 24, DOI: 10.1088/0953-8984/24/6/060301.
88. Falus, P.; Porcar, L.; Fratini, E.; Chen, W.R.; Faraone, A.; Hong, K.L.; Baglioni, P.; Liu, Y. - Distinguishing the monomer to cluster phase transition in concentrated lysozyme solutions by studying the temperature dependence of the short-time dynamics. *Journal of Physics-Condensed Matter* 2012, 24, DOI: 10.1088/0953-8984/24/6/064114.
89. Li, H.; Chiang, W.S.; Fratini, E.; Ridi, F.; Bausi, F.; Baglioni, P.; Tyagi, M.; Chen, S.H. - Dynamic crossover in hydration water of curing cement paste: the effect of superplasticizer. *Journal of Physics-Condensed Matter* 2012, 24, DOI: 10.1088/0953-8984/24/6/064108.
90. Mallamace, F.; Corsaro, C.; Baglioni, P.; Fratini, E.; Chen, S.H. - The dynamical crossover phenomenon in bulk water, confined water and protein hydration water. *Journal of Physics-Condensed Matter* 2012, 24, DOI: 10.1088/0953-8984/24/6/064103.
91. Al Kayal, T.; Russo, E.; Pieri, L.; Caminati, G.; Berti, D.; Bucciattini, M.; Stefani, M.; Baglioni, P. - Interactions of lysozyme with phospholipid vesicles: effects of vesicle biophysical features on protein misfolding and aggregation. *Soft Matter* 2012, 8, 9115-9126.
92. Al Kayal, T.; Nappini, S.; Russo, E.; Berti, D.; Bucciattini, M.; Stefani, M.; Baglioni, P. - Lysozyme interaction with negatively charged lipid bilayers: protein aggregation and membrane fusion. *Soft Matter* 2012, 8, 4524-4534.
93. Baglioni, M.; Giorgi, R.; Berti, D.; Baglioni, P. - Smart cleaning of cultural heritage: a new challenge for soft nanoscience. *Nanoscale* 2012, 4, 42-53.

94. Lo Nostro, P.; Peruzzi, N.; Giustini, L.; Baglioni, P. – Levo vs. Dextro. Effect of the Headgroup Chirality on Nanoassemblies. *Amphiphiles: Molecular Assembly and Applications* 2011, Ch. 5, 67-90.
95. Mallamace, F.; Corsaro, C.; Mallamace, D.; Baglioni, P.; Stanley, H.E.; Chen, S.H. - A Possible Role of Water in the Protein Folding Process. *Journal of Physical Chemistry B* 2011, 115, 14280-14294.
96. Ridi, F.; Fratini, E.; Luciani, P.; Winnefeld, F.; Baglioni, P. – Hydration kinetics of tricalcium silicate by calorimetric methods. *Journal of Colloid and Interface Science* 2011, 364, 118-124.
97. Natali, I.; Carretti, E.; Angelova, L.; Baglioni, P.; Weiss, R.G.; Dei, L. - Structural and Mechanical Properties of "Peelable" Organoaqueous Dispersions with Partially Hydrolyzed Poly(vinyl acetate)-Borate Networks: Applications to Cleaning Painted Surfaces. *Langmuir* 2011, 27, 13226-13235.
98. Baglioni, P. - Microemulsions and micellar solutions for the conservation of cultural heritage. *Abstracts of Papers of the American Chemical Society* 2011, 242.
99. Milani, S.; Karlsson, G.; Edwards, K.; Baglioni, P.; Berti, D. – Association of polynucleotides with nucleolipid bilayers driven by molecular recognition. *Journal of Colloid and Interface Science* 2011, 363, 232-240.
100. Poggi, G.; Baglioni, P.; Giorgi, R. – Alkaline Earth Hydroxide Nanoparticles for the Inhibition of Metal Gall Ink Corrosion. *Restaurator – International Journal for the Preservation of Library and Archival Material* 2011, 32, 247-273.
101. Liu, Y.; Porcar, L.; Chen, J.H.; Chen, W.R.; Falus, P.; Faraone, A.; Fratini, E.; Hong, K.L.; Baglioni, P. – Lysozyme Protein Solution with an Intermediate Range Order Structure. *Journal of Physical Chemistry B* 2011, 115, 7238-7247.
102. Berti, D.; Caminati, G.; Baglioni, P. – Functional liposomes and supported lipid bilayers: towards the complexity of biological archetypes. *Physical Chemistry Chemical Physics* 2011, 13, 8769-8782.
103. Tattini, L.; Lo Nostro, P.; Ravalli, A.; Stirner, M.; Baglioni, P. – Piezoelectric PZT nanodevices from a Hybrid ligand burning method. *Journal of Nanoparticle Research* 2011, 13, 1791-1800.
104. Li, M.D.; Chu, X.Q.; Fratini, E.; Baglioni, P.; Alatas, A.; Alp, E.E.; Chen, S.H. – Phonon-like excitation in secondary and tertiary structure of hydrated protein powders. *Soft Matter* 2011, 7, 9848-9853.
105. Berti, D.; Montis, C.; Baglioni, P. – Self-assembly of designer biosurfactants. *Soft Matter* 2011, 7, 7150-7158.
106. Mallamace, F.; Baglioni, P.; Corsaro, C.; Spooren, J.; Stanley, H.E.; Chen, S.H. – Transport properties of supercooled confined water. *Rivista del nuovo cimento* 2011, 34, 253-388.
107. Nappini, S.; Bonini, M.; Ridi, F.; Baglioni, P. – Structure and permeability of magnetoliposomes loaded with hydrophobic magnetic nanoparticles in the presence of a low frequency magnetic field. *Soft Matter* 2011, 7, 4801-4811.
108. Nappini, S.; Bonini, M.; Baldelli Bombelli, F.; Pineider, F.; Sangregorio, C.; Baglioni, P.; Nordèn, B. - Controlled drug release under a low-frequency magnetic field: effect of the citrate coating on the magnetoliposome stability. *Soft Matter* 2011, 7, 1025-1037.
109. Nappini, S.; Al Kayal, T.; Berti, D.; Nordèn, B.; Baglioni, P. - Magnetically triggered release from giant unilamellar vesicles: visualization by means of confocal microscopy. *J. Phys. Chem. Lett.* 2011, 2, 713-718.

110. Falletta, E.; Ridi, F.; Fratini, E.; Vannucci, C.; Canton, P.; Bianchi, S.; Castelvetro, V.; Baglioni, P. - A Tri-block Copolymer Templated Synthesis of Gold Nanostructures. *Journal of Colloid And Interface Science* 2011, 357 (1), 88-94.
111. Ridi, F.; Fratini, E.; Baglioni, P. - Cement: A two thousand year old nano-colloid. *Journal of Colloid And Interface Science* 2011, 357 (2), 255-264.
112. Cipriani, G.; Salvini, A.; Baglioni, P.; Bucciarelli, E. – Cellulose as a Renewable Resource for the Synthesis of Wood Consolidants. *Journal of Applied Polymer Science* 2010, 118, 2939-2950.
113. Giorgi, R.; Ambrosi, M.; Toccafondi, N.; Baglioni, P. - Nanoparticles for Cultural Heritage conservation: calcium and barium hydroxide nanoparticles for wall painting consolidation. *Chemistry – A European Journal* 2010, 16, 9374-9382.
114. Banchelli, M.; Gambinossi, F.; Durand, A.; Caminati, G.; Brown, T.; Berti, D.; Baglioni, P. - Modulation of density and orientation of amphiphilic DNA on phospholipid membranes. II. Vesicles. *The Journal of Physical Chemistry B* 2010, 114, 7348-7358.
115. Gambinossi, F.; Banchelli, M.; Durand, A.; Berti, D.; Brown, T.; Caminati, G.; Baglioni, P. - Modulation of density and orientation of amphiphilic DNA on phospholipid membranes. I. Supported lipid bilayers. *The Journal of Physical Chemistry B* 2010, 114, 7338-7347.
116. Baglioni, M.; Rengstl, D.; Berti, D.; Bonini, M.; Giorgi, R.; Baglioni, P. - Removal of acrylic coatings from works of art by means of nanofluids: understanding the mechanism at the nanoscale. *Nanoscale* 2010, 2, 1723-1732.
117. Giorgi, R.; Baglioni, M.; Berti, D.; Baglioni, P. - New Methodologies for the Conservation of Cultural Heritage: Micellar Solutions, Microemulsions, and Hydroxide Nanoparticles. *Accounts of Chemical Research* 2010, 43 (6), 695-704.
118. Baglioni, P.; Giorgi, R. - Inorganic nanoparticles for works of art conservation *Inorganic Nanoparticles: Synthesis, Applications, and Perspectives; Series: Nanomaterials and their Applications; Editors: C. Altavilla & E. Ciliberto, CRC Press – Taylor & Francis Group: London, 2010.*
119. Poggi, G.; Giorgi, R.; Toccafondi, N.; Katur, V.; Baglioni, P. - Hydroxide Nanoparticles for Deacidification and Concomitant Inhibition of Iron-Gall Ink Corrosion of Paper. *Langmuir* 2010, 26, 19084-19090.
120. Carretti, E.; Bonini, M.; Dei, L.; H. Berrie, B.; Angelova, L.V.; Baglioni, P.; Weiss, R.G. - New Frontiers in Materials Science for Art Conservation. *Responsive Gels and Beyond. Accounts of Chemical Research* 2010, 43, 751-760.
121. Carretti, E.; Natali, I.; Matarrese, C.; Bracco, P.; Weiss, R. G.; Baglioni, P.; Dei L. - A new family of viscoelastic polymeric dispersions for cleaning easel paintings. *Journal of Cultural Heritage* 2010, 11, 373-380.
122. Ciani, L.; Bortolussi, S.; Altieri, S.; Ristori, S.; Ferrari, C.; Zonta, A.; Baglioni, P.; Martini, G. - Boron-neutron capture therapy: research and clinical application. Part 1. *Chimica e l'Industria* 2010, 92, 83-87.
123. Bortolussi, S.; Ciani, L.; Altieri, S.; Ristori, S.; Ferrari, C.; Zonta, A.; Baglioni, P.; Martini, G. - Chemistry and technology. Boron neutron capture therapy: research and clinical application. Part 2. *Chimica e l'Industria* 2010, 92, 117-125.

124. Porcar, L.; Falus, P.; Chen, W. R.; Faraone, A.; Fratini, E.; Hong, K. L.; Baglioni, P.; Liu, Y. - Formation of the Dynamic Clusters in Concentrated Lysozyme Protein Solutions. *Journal of Physical Chemistry Letters* 2010, 1, (1), 126-129.
125. Pace, G.; Tu, G. L.; Fratini, E.; Massip, S.; Huck, W. T. S.; Baglioni, P.; Friend, R. H. - Poly(9,9-dioctylfluorene)-Based Conjugated Polyelectrolyte: Extended π -Electron Conjugation Induced by Complexation with a Surfactant Zwitterion. *Advanced Materials* 2010, 22, (18), 2073-2078.
126. Fratini, E.; Faraone, A.; Todea, A. M.; Baglioni, P. - Hydrated $\{\text{Mo72Fe30}\}$ clusters: Low-frequency hydrogen modes and self-aggregation. *Inorganica Chimica Acta* 2010, 363, (15), 4234-4239.
127. Chu, X. Q.; Lagi, M.; Mamontov, E.; Fratini, E.; Baglioni, P.; Chen, S. H. - Experimental evidence of logarithmic relaxation in single-particle dynamics of hydrated protein molecules. *Soft Matter* 2010, 6, (12), 2623-2627.
128. Chen, S. H.; Zhang, Y.; Lagi, M.; Chu, X. Q.; Liu, L.; Faraone, A.; Fratini, E.; Baglioni, P. - The Dynamic Response Function $\chi(T)(Q,t)$ of Confined Supercooled Water and its Relation to the Dynamic Crossover Phenomenon. *Zeitschrift Fur Physikalische Chemie-International Journal of Research in Physical Chemistry & Chemical Physics* 2010, 224, (1-2), 109-131.
129. Chen, S. H.; Lagi, M.; Chu, X. Q.; Zhang, Y.; Kim, C.; Faraone, A.; Fratini, E.; Baglioni, P. - Dynamics of a globular protein and its hydration water studied by neutron scattering and MD simulations. *Spectroscopy-an International Journal* 2010, 24, (1-2), 1-24.
130. Lo Nostro, P.; Peruzzi, N.; Severi, M.; Ninham, B.W.; Baglioni, P. - Asymmetric Partitioning of Anions in Lysozyme Dispersions. *Journal of the American Chemical Society* 2010, 132, 6571-6577.
131. Piezoelectric PZT nanodevices from a hybrid ligand burning method. Tattini, L.; Lo Nostro, P.; Ravalli, A.; Stirner, M.; Baglioni, P. *Journal of Nanoparticle Research* 2010. DOI 10.1007/s11051-010-9930-5.
132. Nappini, S.; Baldelli Bombelli, F.; Bonini M.; Nordèn, B.; Baglioni, P. - Magnetoliposomes for controlled drug release in the presence of low-frequency magnetic field. *Soft Matter* 2010, 6, 154-162.
133. Zhang, Y.; Lagi, M.; Liu, D. Z.; Mallamace, F.; Fratini, E.; Baglioni, P.; Mamontov, E.; Hagen, M.; Chen, S. H. - Observation of high-temperature dynamic crossover in protein hydration water and its relation to reversible denaturation of lysozyme. *Journal of Chemical Physics* 2009, 130, 135101-1 – 135101-8.
134. Zhang, Y.; Lagi, M.; Fratini, E.; Baglioni, P.; Mamontov, E.; Chen, S. H. - Dynamic Susceptibility of Supercooled Water and its relation to the Dynamic Crossover Phenomenon. *Physical Review E* 2009, 79, 040201-1 – 040201-4.
135. Tattini, L.; Lo Nostro, P.; Scalise, L.; Ninham, B. W.; Baglioni P. – Gels from a semifluorinated n-alkane in fluorinated solvents as a probe for intermolecular interactions. *Journal of Colloid and Interface Science* 2009, 339, 259-265.
136. Ridi, F.; Verdal, N.; Baglioni, P. ; Sheu, E. Y. - Phase separation kinetics of maya asphaltene emulsion and free-to-bound water transformation. *Fuel* 2009, 88, 319-325.
137. Ridi, F.; Luciani, P.; Fratini, E.; Baglioni, P. - Water Confined in Cement Pastes as a Probe of Cement Microstructure Evolution. *Journal of Physical Chemistry B* 2009, 113, 3080-3087.
138. Milani, S.; Berti, D.; Dante, S.; Hauss, T.; Baglioni, P. - Intercalation of Single-Strand Oligonucleotides between Nucleolipid Anionic Membranes: A Neutron Diffraction Study. *Langmuir* 2009, 25, 4084-4092.

139. Luciani, P.; Berti, D.; Fortini, M.; Baglioni, P.; Ghelardini, C.; Pacini, A.; Manetti, D.; Gualtieri, F.; Bartolini, A.; Mannelli, L. D. C. - Receptor-independent modulation of reconstituted Galphai protein mediated by liposomes. *Molecular Biosystems* 2009, 5, 356-367.
140. Lo Nostro, P.; Ambrosi, M.; Ninham, B. W.; Baglioni, P. - Effect of Headgroup Chirality in Nanoassemblies. Part 2. Thermal Behavior of Vitamin C-Based Surfactants. *Journal of Physical Chemistry B* 2009, 113, 8324-8331.
141. Lagi, M.; Baglioni, P.; Chen, S. H. - Logarithmic Decay in Single-Particle Relaxation of Hydrated Lysozyme Powder. *Physical Review Letters* 2009, 103, 108102-1 – 108102-4.
142. Giorgi, R.; Chelazzi, D.; Fratini, E.; Langer, S.; Niklasson, A.; Rademar, M.; Svensson, J. E.; Baglioni, P. - Nanoparticles of calcium hydroxide for wood deacidification: Decreasing the emissions of organic acid vapors in church organ environments. *Journal of Cultural Heritage* 2009, 10, 206-213.
143. Ghini, G.; Lascialfari, L.; Vinattieri, C.; Cicchi, S.; Brandi, A.; Berti, D.; Betti, F.; Baglioni, P.; Mannini, M. - Towards a general organogelator: combining a versatile scaffold and an efficient linking process. *Soft Matter* 2009, 5, 1863-1869.
144. Faraone, A.; Fratini, E.; Todea, A. M.; Krebs, B.; Muller, A.; Baglioni, P. - Dynamics of water in voids between well defined and rather densely packed spherical nanocages/polyprotic inorganic acids. *Journal of Physical Chemistry C* 2009, 113, 8635-8644.
145. Chu, X. Q.; Faraone, A.; Kim, C.; Fratini, E.; Baglioni, P.; Leao, J. B.; Chen, S. H. - Proteins Remain Soft at Lower Temperatures under Pressure. *Journal of Physical Chemistry B* 2009, 113, 5001-5006.
146. Chen, S. H.; Zhang, Y.; Lagi, M.; Chong, S. H.; Baglioni, P.; Mallamace, F. - Evidence of dynamic crossover phenomena in water and other glass-forming liquids: experiments, MD simulations and theory. *Journal of Physics-Condensed Matter* 2009, 21.
147. Carretti, E.; Milano, M.; Dei, L.; Baglioni, P. - Noninvasive physicochemical characterization of two 19th century english ferrotypes. *Journal of Cultural Heritage* 2009, 10, 501-508.
148. Carretti, E.; Grassi, S.; Cossalter, M.; Natali, I.; Caminati, G.; Weiss, R. G.; Baglioni, P.; Dei, L. G. - Poly(vinyl alcohol)-Borate Hydro/Cosolvent Gels: Viscoelastic Properties, Solubilizing Power, and Application to Art Conservation. *Langmuir* 2009, 25, 8656-8662.
149. Carretti, E.; Fratini, E.; Berti, D.; Dei, L.; Baglioni, P. - Nanoscience for Art Conservation: Oil-in-Water Microemulsions Embedded in a Polymeric Network for the Cleaning of Works of Art. *Angewandte Chemie-International Edition* 2009, 48, 8966-8969.
150. Bombelli, F. B.; Betti, F.; Gambinossi, F.; Caminati, G.; Brown, T.; Baglioni, P.; Berti, D. - Closed nanoconstructs assembled by step-by-step ss-DNA coupling assisted by phospholipid membranes. *Soft Matter* 2009, 5, 1639-1645.
151. Banchelli, M.; Bombelli, F. B.; Berti, D.; Baglioni, P. - Soft Hybrid Nanostructures Composed Of Phospholipid Liposomes Decorated With Oligonucleotides. In *Methods in Enzymology Liposomes*, Pt F 2009; 464, 249.
152. Baglioni, P.; Giorgi, R.; Dei, L. - Soft condensed matter for the conservation of cultural heritage. *Comptes Rendus Chimie* 2009, 12, 61-69.
153. Baglioni, P.; Dei, L. G.; Carretti, E.; Giorgi, R. - Gels for the Conservation of Cultural Heritage. *Langmuir* 2009, 25, 8373-8374.

154. Baglioni, P.; Braccalenti, E.; Carretti, E.; Germani, R.; Goracci, L.; Savelli, G.; Tiecco, M. - Surfactant-Based Photoreological Fluids: Effect of the Surfactant Structure. *Langmuir* 2009, 25, 5467-5475.
155. Ambrosi, M.; Lo Nostro, P.; Fratini, E.; Giustini, L.; Ninham, B. W.; Baglioni, P. – Effect of Headgroup Chirality in Nanoassemblies. Part 1. Self-Assembly of D-Isoascorbic Acid Derivatives in water. *Journal of Physical Chemistry B* 2009, 113, 1404-1412.
156. Zhang, Y.; Lagi, M.; Ridi, F.; Fratini, E.; Baglioni, P.; Mamontov, E.; Chen, S. H. - Observation of Dynamic Crossover and Dynamic Heterogeneity in Hydration Water Confined in Aged Cement Paste. *Journal of Physics-Condensed Matter* 2008, 20, 502101-1 – 502101-6.
157. Lo Nostro, P.; Murgia, S.; Lagi, M.; Fratini, E.; Karlsson, G.; Almgren, M.; Monduzzi, M.; Ninham, B. W.; Baglioni, P. – Interconnected networks: Structural and dynamic characterization of aqueous dispersions of dioctanoylphosphatidylcholine. *Journal of Physical Chemistry B* 2008, 112, 12625-12634.
158. 99. Liu, D.; Chu, X. Q.; Lagi, M.; Zhang, Y.; Fratini, E.; Baglioni, P.; Alatas, A.; Said, A.; Alp, E.; Chen, S. H. - Studies of phononlike low-energy excitations of protein molecules by inelastic X-ray scattering. *Physical Review Letters* 2008, 101, 135501-1 - 135501-4.
159. Gambinossi, F.; Lorenzelli, L.; Baglioni, P.; Caminati, G. – Silicon oxide surface functionalization by self-assembled nanolayers for microcantilever transducers. *Colloids and Surfaces a-Physicochemical and Engineering Aspects* 2008, 321, 87-93.
160. Falletta, E.; Bonini, M.; Fratini, E.; Lo Nostro, A.; Pesavento, G.; Becheri, A.; Lo Nostro, P.; Canton, P.; Baglioni, P. *Journal of Physical Chemistry C* 2008, 112, 11758-11766.
161. Cattaneo, B.; Chelazzi, D.; Giorgi, R.; Serena, T.; Merlo, C.; Baglioni, P. – Physico-chemical characterization and conservation issues of photographs dated between 1890 and 1910. *Journal of Cultural Heritage* 2008, 9, 277-284.
162. Carretti, E.; Dei, L.; Weiss, R. G.; Baglioni, P. - A new class of gels for the conservation of painted surfaces. *Journal of Cultural Heritage* 2008, 9, 386-393.
163. Bonini, M.; Lenz, S.; Falletta, E.; Ridi, F.; Carretti, E.; Fratini, E.; Wiedenmann, A.; Baglioni, P. - Acrylamide-Based Magnetic Nanosponges: An Approach To Nanocomposite Materials. *Langmuir* 2008, 24, 12644-12650.
164. Bombelli, F. B.; Gambinossi, F.; Lagi, M.; Berti, D.; Caminati, G.; Brown, T.; Sciortino, F.; Norden, B.; Baglioni, P. - DNA Closed Nanostructures: A Structural and Monte Carlo Simulation Study. *Journal of Physical Chemistry B* 2008, 112, 15283-15294.
165. Banchelli, M.; Betti, F.; Berti, D.; Caminati, G.; Bombelli, F. B.; Brown, T.; Wilhelmsson, L. M.; Norden, B.; Baglioni, P. - Phospholipid membranes decorated by cholesterol-based oligonucleotides as soft hybrid nanostructures. *Journal of Physical Chemistry B* 2008, 112, 10942-10952.
166. S.-H. Chen, F. Mallamace, L. Liu, D. Z. Liu, X. Q. Chu, Y. Zhang, C. Kim, A. Faraone, C.-Y. Mou, E. Fratini, P. Baglioni, A.I. Kolesnikov, V. Garcia-Sakai - Dynamic Crossover Phenomenon in Confined Supercooled Water and its Relation to the Existence of a Liquid-Liquid Critical Point in Water: *AIP Conf. Proc.* 2008, 982, 39-52.
167. Milani, S.; Baldelli Bombelli, F.; Berti, D.; Dante, S.; Hauss, T.; Baglioni, P.- Nucleolipid membranes: structure and molecular recognition. *Journal of Physics: Condensed Matter* 2008, 20, 104212-104210pp.

168. Lagi, M.; Chu, X.; Kim, C.; Mallamace, F.; Baglioni, P.; Chen, S. H. - The low-temperature dynamic crossover phenomenon in protein hydration water: Simulations vs experiments. *Journal of Physical Chemistry B* 2008, 112, 1571-1575.
169. Cicchi, S.; Ghini, G.; Fallani, S.; Brandi, A.; Berti, D.; Betti, F.; Baglioni, P.- The triazine ring as a scaffold for the synthesis of new organogelators. *Tetrahedron Letters* 2008, 49, 1701-1705.
170. Chu, X.; Fratini, E.; Baglioni, P.; Faraone, A.; Chen, S. H. - Observation of a dynamic crossover in RNA hydration water which triggers a dynamic transition in the biopolymer. *Physical Review E: Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics* 2008, 77, 011908.
171. Becheri, A.; Durr, M.; Lo Nostro, P.; Baglioni, P.- Synthesis and characterization of zinc oxide nanoparticles: application to textiles as UV-absorbers. *Journal of nanoparticles research* 2008, 10, 679-689.
172. Baldelli Bombelli, F.; Berti, D.; Milani, S.; Lagi, M.; Barbaro, P.; Karlsson, G.; Brandt, A.; Baglioni, P.- Collective headgroup conformational transition in twisted micellar superstructures. *Soft Matter* 2008, 4, 1102-1113.
173. Baldelli Bombelli, F.; Betti, F.; Berti, D.; Pini, F.; Heinrich, M.; Baglioni, P.- Structural characterization of Di-C12 P-uridine worm-like micelles: ionic strength dependence. *Journal of Physics: Condensed Matter* 2008, 20, 104213-104211pp.
174. Lo Nostro, P.; Giustini, L.; Fratini, E.; Ninham, B. W.; Ridi, F.; Baglioni, P.- Threading, growth, and aggregation of pseudopolyrotaxanes. *Journal of Physical Chemistry B* 2008, 112, 1071-1081.
175. Banchelli, M.; Berti, D.; Baglioni, P.- Molecular Recognition Drives Oligonucleotide Binding to Nucleolipid Self-Assemblies. *Angewandte Chemie International Edition* 2007, 46, 3070-3073.
176. Tumpane, J.; Sandin, P.; Kumar, R.; Powers, V. E. C.; Lundberg, E. P.; Gale, N.; Baglioni, P.; Lehn, J. M.; Albinsson, B.; Lincoln, P.; Wilhelmsson, M.; Brown, T.; Nordén, B. - Addressable high-information-density DNA nanostructures. *Chemical Physics Letters* 2007, 440, 125-129.
177. Rossi, S.; Lo Nostro, P.; Lagi, M.; Ninham, B. W.; Baglioni, P.- Specific anion effects on the optical rotation of alpha-amino acids. *Journal of Physical Chemistry B* 2007, 111, 10510-10519.
178. Rossi, S.; Bonini, M.; Lo Nostro, P.; Baglioni, P.- Self-assembly of beta-cyclodextrin in water. 2. Electron spin resonance. *Langmuir* 2007, 23, 10959-10967.
179. Milani, S.; Baldelli Bombelli, F.; Berti, D.; Baglioni, P.- Nucleolipoplexes: A New paradigm for Phospholipid Bilayer - Nucleic Acid Interactions. *Journal of American Chemistry Society* 2007, 129, 11664-11665.
180. Mallamace, F.; Chen, S. H.; Broccio, M.; Corsaro, C.; Crupi, V.; Majolino, D.; Venuti, V.; Baglioni, P.; Fratini, E.; Vannucci, C.; Stanley, H. E. - Role of the solvent in the dynamical transitions of proteins: the case of the lysozyme-water system. *The Journal of Chemical Physics* 2007, 127, 045104-045106.
181. Tumpane, J.; Sandin, P.; Kumar, R.; Powers, V. E. C.; Baglioni, P.; Lehn, J. M.; Albinsson, B.; Lincoln, P.; Brown, T. - Addressable molecular node assembly - A generic platform of nano-scale functionalised surfaces based on a "Digitally addressable" molecular grid. *Journal of Biomolecular Structure & Dynamics* 2007, 24.
182. Lo Nostro, P.; Ramsch, R.; Fratini, E.; Lagi, M.; Ridi, F.; Carretti, E.; Ambrosi, M.; Ninham, B. W.; Baglioni, P.- Organogels from a Vitamin C-Based Surfactant. *Journal of physical Chemistry B* 2007, 111, 11714-11721.

183. Lagi, M.; Lo Nostro, P.; Fratini, E.; Ninham, B. W.; Baglioni, P.- Insights into Hofmeister Mechanisms: Anion and Degassing Effects on the Cloud Point of Dioctanoylphosphatidylcholine/Water Systems. *Journal of Physical Chemistry B* 2007, 111, 589-597.
184. Grassi, S.; Carretti, E.; Pecorelli, P.; Iacopini, F.; Baglioni, P.; Dei, L. - The conservation of the Vecchietta's wall paintings in the Old Sacristy of Santa Maria in Siena: the use of nanotechnological cleaning agents. *Journal of Cultural Heritage* 2007, 8, 119-125.
185. Gambinossi, F.; Baglioni, P.; Caminati, G. - Hybrid LbL/LB films as molecular OLEDs: An acoustic shear wave attenuation and Brewster angle microscopy study. *Materials Science & Engineering, C: Biomimetic and Supramolecular Systems* 2007, 27, 1056-1060.
186. Gambi, C. M. C.; Giordano, R.; Chittofrati, A.; Pieri, R.; Laurati, M.; Baglioni, P.; Teixeira, J. - Small-Angle Neutron Scattering of Mixed Ionic Perfluoropolyether Micellar solutions. *Journal of Physical Chemistry B* 2007, 111, 1348-1353.
187. Fratini, E.; Page, M. G.; Giorgi, R.; Colfen, H.; Baglioni, P.; Deme, B.; Zemb, T. - Competitive Surface Adsorption of solvent Molecules and Compactness of Agglomeration in Calcium Hydroxide Nanoparticles. *Langmuir* 2007, 23, 2330-2338.
188. Colafemmina, G.; Fiorentino, D.; Ceglie, A.; Carretti, E.; Fratini, E.; Dei, L.; Baglioni, P.; Palazzo, G. - Structure of SDS micelles with propylene carbonate as cosolvent: a PGSE-NMR and SAXS study. *Journal of Physical Chemistry* 2007, 111, 7184-7193.
189. Cicchi, S.; Ghini, G.; Lascialfari, L.; Brandi, A.; Betti, F.; Berti, D.; Ferrati, S.; Baglioni, P.- A new organogelator based on an enantiopure C₂ symmetric pyrrolidine. *Chemical Communications* 2007, 14, 1424-1426.
190. Chen, S. H.; Broccio, M.; Liu, Y.; Fratini, E.; Baglioni, P. - The two-Yukawa model and its applications: the cases of charged proteins and copolymer micellar solutions. *Journal of applied Crystallography* 2007, 40, s321-s326.
191. Carretti, E.; Giorgi, R.; Berti, D.; Baglioni, P.- Oil-in-Water Nanocontainers as Low Environmental Impact Cleaning Tools for Works of Art: Two Case Studies. *Langmuir* 2007, 23, 6396-6403.
192. Bonini, M.; Lenz, S.; Giorgi, R.; Baglioni, P.- Nanomagnetic Sponges for the Cleaning of Works of Art. *Langmuir* 2007, 23, 8681-8685.
193. Bonini, M.; Wiedenmann, A.; Baglioni, P.- Study of ferrite ferrofluids by small angle scattering of polarized neutrons. *Applied Crystallography* 2007, 40, s254-s258.
194. Bonini, M.; Fratini, E.; Baglioni, P.- SAXS study of chain-like structures formed by magnetic nanoparticles. *Materials Science & Engineering, C: Biomimetic and Supramolecular Systems* 2007, 27, 1377-1381.
195. Betti, F.; Baldelli Bombelli, F.; Berti, D.; Bonini, M.; Brandt, A.; Baglioni, P.- Microstructure of ternary system di-lauroyl-phosphatidyl-adenosine/water/cyclohexane. *Applied Crystallography* 2007, 40, s-240-s244.
196. Berti, D.; Baldelli Bombelli, F.; Fortini, M.; Baglioni, P.- Amphiphilic self-assemblies decorated by nucleobases. *Journal of Physical Chemistry B* 2007, 111, 11734-11744.

197. Baglioni, P.; Chelazzi, D.; Giorgi, R.; Colon, M.; Carrasco, R. - New methods for the conservation of mexican cultural heritage. In "New methodologies for conservation of Cultural Heritage" Conaculta - Instituto Nacional de Antropologia y Historia (INAH), Mexico City 2007.
198. Chelazzi, D.; Giorgi, R.; Baglioni, P.- Nanotechnologies for the conservation of waterlogged wood: the Vasa case studies. In "Heritage, Weathering and Conservation, Vols 1 & 2", Fort, R.; Alvarez De Buergo, M.; Gomez Heras, M; Vazquez Calvo, C. Eds. 2006, 797-802. ISBN: 0-415-41272-2.
199. Scalia, S.; Tursilli, R.; Bianchi, A.; Lo Nostro, P.; Bocci, E.; Ridi, F.; Baglioni, P.- Incorporation of the sunscreen agent, octyl methoxycinnamate in a cellulosic fabric grafted with betacyclodextrin. International journal of pharmaceutics 2006, 308, 155-159.
200. Rosenzweig, B.; Carretti, E.; Picollo, M.; Baglioni, P.; Dei, L. - Use of mid-infrared fiber-optic reflectance spectroscopy (FORS) to evaluate efficacy of nanostructured systems in wall painting conservation. Applied Physics A: Materials Science & Processing 2006, 83, 669-673.
201. Ridi, F.; Fratini, E.; Milani, S.; Baglioni, P.- Near-infrared spectroscopy investigation of the water confined in tricalcium silicate pastes. Journal of Physical Chemistry B 2006, 110, 16326-16331.
202. Milani, S.; Baldelli Bombelli, F.; Berti, D.; Hauss, T.; Dante, S.; Baglioni, P.- Structural Investigation of Bilayers Formed by 1-Palmitoyl-2-oleoylphosphatidyl nucleosides. Biophysical Journal 2006, 90, 1260-1269.
203. Lo Nostro, P.; Ninham, B. W.; Lo Nostro, A.; Milani, S.; Baglioni, P.; Pesavento, G. - Hofmeister effects in supramolecular and biological systems. Biophysical Chemistry 2006, 124, 208-213.
204. Lo Nostro, P.; Ninham, B. W.; Milani, S.; Fratoni, L.; Baglioni, P.- Specific anion effect on the optical rotation of glucose and serine. Biopolymers 2006, 81, 136-148.
205. Liu, Y.; Fratini, E.; Baglioni, P.; Chen, W. R.; Porcar, L.; Chen, S. H. - Comment on "Effective long-range attraction between protein molecules in solution studied by small angle neutron scattering". Physical Review Letters 2006, 96, 219802-219801.
206. Giorgi, R.; Chelazzi, D.; Carrasco, R.; Colon, M.; Desprat, A.; Baglioni, P.- In "The Object in Context: Crossing Conservation Boundaries" D.Saunders, J.H. Townsend, S. Woodcock - IIC, 2006, pp 162-169.
207. Giorgi, R.; Chelazzi, D.; Baglioni, P.- Conservation of acid waterlogged shipwrecks: nanotechnologies for deacidification. Applied Physics A: Materials Science & Processing 2006, 83, 567-571.
208. Fratini, E.; Ridi, F.; Chen, S. H.; Baglioni, P.- Hydration water and microstructure in calcium silicate and aluminate hydrates. J Phys-Condens Mat 2006, 18, S2467-S2483.
209. Fratini, E.; Bonini, M.; Oasmaa, A.; Solantausta, Y.; Teixeira, J.; Baglioni, P.- SANS Analysis of the Microstructural Evolution during the Aging of Pyrolysis Oils from Biomass. Langmuir 2006, 22, 306-312.
210. Di Cesare Mannelli, L.; Pacini, A.; Toscano, A.; Fortini, M.; Berti, D.; Ghelardini, C.; Galeotti, N.; Baglioni, P.; Bartolini, A. - Gi/o proteins: expression for direct activation enquiry. Protein Expression and Purification 2006, 47, 303-310.
211. Chen, S. H.; Liu, L.; Fratini, E.; Baglioni, P.; Faraone, A.; Mamontov, E. - Observation of fragile-to-strong dynamic crossover in protein hydration water. Proceedings of the National Academy of Sciences 2006, 103, 9012-9016.

212. Chen, S. H.; Liu, L.; Chu, X.; Zhang, Y.; Fratini, E.; Baglioni, P.; Faraone, A.; Mamontov, E. - Experimental evidence of fragile-to-strong dynamic crossover in DNA hydration water. *The Journal of Chemical Physics* 2006, 125, 171103-171104.
213. Chelazzi, D.; Giorgi, R.; Baglioni, P.- Nanotechnology for Vasa wood de-acidification. *Macromolecular Symposia* 2006, 238, 30-36.
214. Bostrom, M.; Lonetti, B.; Fratini, E.; Baglioni, P.; Ninham, B. W. - Why pH Titration in Protein Solutions Follows a Hofmeister Series. *Journal of Physical Chemistry B* 2006, 110, 7563-7566.
215. Bonini, M.; Wiedenmann, A.; Baglioni, P.- Synthesis and characterization of magnetic nanoparticles coated with a uniform silica shell. *Materials Science & Engineering, C: Biomimetic and Supramolecular Systems* 2006, 26, 745-750.
216. Bonini, M.; Rossi, S.; Karlsson, G.; Almgren, M.; Lo Nostro, P.; Baglioni, P.- Self-Assembly of beta-cyclodextrin in water. Part 1: Cryo-Tem and dynamic and static light scattering. *Langmuir* 2006, 22, 1478-1484.
217. Bombelli, F. B.; Berti, D.; Almgren, M.; Karlsson, G.; Baglioni, P.- Light scattering and cryo-transmission electron microscopy investigation of the self-assembling behavior of di-C12P-nucleosides in solution. *Journal of Physical Chemistry B* 2006, 110, 17627-17637.
218. Baglioni, P.; Giorgi, R. - Soft and hard nanomaterials for restoration and conservation of cultural heritage. *Soft Matter* 2006, 2, 293-303.
219. Angius, R.; Murgia, S.; Berti, D.; Baglioni, P.; Monduzzi, M. - Molecular recognition and controlled release in drug delivery systems based on nanostructured lipid surfactants. *J Phys-Condens Mat* 2006, 18, S2203-S2220.
220. Ambrosi, M.; Fratini, E.; Alfredsson, V.; Ninham, B. W.; Giorgi, R.; Lo Nostro, P.; Baglioni, P.- Nanotubes from a vitamin C-based bolaamphiphile. *Journal of the American Chemical Society* 2006, 128, 7209-7214.
221. Giorgi, R.; Chelazzi, D.; Baglioni, P.- Conservation of acid waterlogged shipwrecks: nanotechnologies for deacidification. *Applied Physics A: Materials Science & Processing* 2006, 83, 567-571.
222. Romi, R.; Lo Nostro, P.; Bocci, E.; Ridi, F.; Baglioni, P.- Bioengineering of a Cellulosic Fabric for Insecticide Delivery via Grafted Cyclodextrin. *Biotechnology Progress* 2005, 21, 1724-1730.
223. Neto, C.; Bonini, M.; Baglioni, P.- Self-assembly of magnetic nanoparticles into complex superstructures: Spokes and spirals. *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS* 2005, 269, 96-100.
224. Lo Nostro, P.; Scalise, L.; Baglioni, P.- Phase separation in binary mixtures containing linear perfluoroalkanes. *Journal of chemical and engineering data* 2005, 50, 8592-8598.
225. Lo Nostro, P.; Ninham, B. W.; Lo Nostro, A.; Pesavento, G.; Fratoni, L.; Baglioni, P.- Specific ion effects on the growth rates of staphylococcus aureus and pseudomonas aeruginosa. *Physical Biology* 2005, 2, 1-7.
226. Liu, Y.; Chen, S. H.; Berti, D.; Baglioni, P.; Alatas, A.; Sinn, H.; Alp, E.; Said, A. - Effects of counterion valency on the damping of phonons propagating along the axial direction of liquid-crystalline DNA. *Journal of Chemical Physics* 2005, 123.

227. Liu, Y.; Berti, D.; Baglioni, P.; Chen, S. H.; Alatas, A.; Sinn, H.; Said, A.; Alp, E. - Inelastic X-ray scattering studies of phonons propagating along the axial direction of a DNA molecule having different counter-ion atmosphere *Journal of Physics and Chemistry of Solids* 2005, 66, 2235-2245.
228. Liu, Y.; Fratini, E.; Baglioni, P.; Chen, W. R.; Chen, S. H. - Effective Long-Attraction between Protein Molecules in Solution Studied by Small Angle Neutron Scattering. *Physical Review Letters* 2005, 95, 118102(118104).
229. Giorgi, R.; Bozzi, C.; Dei, L.; Gabbiani, C.; Ninham, B. W.; Baglioni, P.- Nanoparticles of Mg(OH)₂: Synthesis and Application to Paper conservation. *Langmuir* 2005, 21, 8495-8501.
230. Giorgi, R.; Chelazzi, D.; Baglioni, P.- Nanoparticles of Calcium Hydroxide for Wood Conservation. The Deacidification of the Vasa Warship. *Langmuir* 2005, 21, 10743-10748.
231. Gambi, C. M. C.; Giordano, R.; Chittofrati, A.; Pieri, R.; Baglioni, P.; Teixeira, J. - Small-angle neutron scattering of ionic perfluoropolyether micellar solutions: Role of counterions and temperature. *Journal of physical Chemistry B* 2005, 109, 8592-8598.
232. Carretti, E.; Salvadori, B.; Baglioni, P.; Dei, L. - Microemulsions and micellar Solutions for Cleaning Wall Painting Surfaces. *Studies in Conservation* 2005, 50, 1-8
233. Bonini, M.; Berti, D.; Di Meglio, J. M.; Almgren, M.; Teixeira, J.; Baglioni, P.- Surfactant aggregates hosting a photoresponsive amphiphile: structure and photoinduced conformational changes. *Soft Matter* 2005, 1, 444-454.
234. Ridi, F.; Fratini, E.; Mannelli, F.; Baglioni, P.- Hydration Process of Cement in the Presence of a Cellulosic Additive. A Calorimetric Investigation. *Journal of Physical Chemistry B* 2005, 109, 14727-14734.
235. Pirazzoli, I.; Alesiani, M.; Capuani, S.; Maraviglia, B.; Giorgi, R.; Ridi, F.; Baglioni, P.- The influence of superplasticizers on the first steps of tricalcium silicate hydration studied by NMR techniques. *Magnetic Resonance Imaging* 2005, 23, 277-284.
236. Palazzo, G.; Fiorentino, D.; Colafemmina, G.; Ceglie, A.; Carretti, E.; Dei, L.; Baglioni, P.- Nanostructured Fluids Based on Propylene Carbonate/Water Mixtures. *Langmuir* 2005, 21, 6717-6725.
237. Lonetti, B.; Lo Nostro, P.; Ninham, B. W.; Baglioni, P.- Anion effects on calixarene monolayers: a Hofmeister series study. *Langmuir* 2005, 21, 2242-2249.
238. Lo Nostro, P.; Ninham, B. W.; Milani, S.; Fratoni, L.; Baglioni, P.- Specific anion effect on the optical rotation of glucose and serine. *Biopolymers* 2005, 81, 1260-1269.
239. Baglioni, P.; Carretti, E.; Dei, L.; Ferroni, E.; Giorgi, R. - La scienza della Conservazione: elisir di lunga vita per le opere d'arte. *Darwin-bimestrale di scienza* 2005, 26-32.
240. Baglioni, P.; Giorgi, R. - La sfida delle nanoscienze. *Kos* 2005, 20-24.
241. Vervat, M.; Vigna, A.; Baglioni, P.; Giorgi, R.; Chelazzi, C. - Il ritratto di Diego Martelli di Federico Zandomenighi della Galleria d'Arte Moderna di Firenze: un restauro secondo il principio del minimo intervento. *II Congresso Nazionale IGIIC - Lo stato dell'arte. Conservazione e restauro.* 2004.
242. Tofani, L.; Feis, A.; Snoke, R. E.; Berti, D.; Baglioni, P.; Smulevich, G. - Spectroscopic and interfacial properties of Myoglobin/Surfactant Complexes. *Biophysical Journal* 2004, 87, 1186-1195.

243. Mannini, M.; Gambinossi, F.; Baglioni, P.; Caminati, G. - Immobilization of a fluorescent dye in Langmuir-Blodgett films. *Bioelectrochemistry* 2004, 63, 9-12.
244. Mangiapia, G.; Berti, D.; Baglioni, P.; Teixeira, J.; Paduano, L. - Structural Investigation on the Poly(vinylpyrrolidone)-Water System in the Presence of Sodium Decyl Sulfate and Sodium Decanesulfonate: A Small Angle Neutron Scattering Study. *Journal of Physical Chemistry B* 2004, 108, 9772-9779.
245. Lonetti, B.; Fratini, E.; Casnati, A.; Baglioni, P.- Langmuir monolayers of calix[8]arene derivatives: complexation of alkaline earth ions at the air/water interface. *Colloids and Surfaces A - Physicochemical and Engineering Aspects* 2004, 248, 135-143.
246. Lonetti, B.; Fratini, E.; Chen, S. H.; Baglioni, P.- Viscoelastic and small angle neutron scattering studies of concentrated protein solutions. *Physical Chemistry Chemical Physics* 2004, 6, 1388-1395.
247. Lo Nostro, P.; Lo Nostro, A.; Ninham, B. W.; Pesavento, G.; Fratoni, L.; Baglioni, P.- Hofmeister specific ion effects in two biological systems. *Journal of Colloid & Interface Science* 2004.
248. Liu, Y.; Berti, D.; Faraone, A.; Chen, W. R.; Alatas, A.; Sinn, H.; Alp, E.; Said, A.; Baglioni, P.; Chen, S. H. - Inelastic X-ray scattering studies of phonons in liquid crystalline DNA. *Physical Chemistry Chemical Physics* 2004, 6, 1499-1505.
249. Gambinossi, F.; Baglioni, P.; Caminati, G. - Self-aggregation and phase separation of a styryl dye in monolayer at the liquid-air interface and in Langmuir-Blodgett films. *Physical Chemistry Chemical Physics* 2004, 6, 1587-1591.
250. Fortini, M.; Berti, D.; Baglioni, P.; Ninham, B. W. - Specific anion effects on the aggregation properties of anionic nucleolipids. *Current Opinion in Colloid & Interface Science* 2004, 9, 168-172.
251. Faraone, A.; Fratini, E.; Baglioni, P.; Chen, S. H. - Quasielastic and inelastic neutron scattering on hydrated calcium silicate pastes. *Journal of Chemical Physics* 2004, 121, 3212-3220.
252. Carretti, E.; Dei, L.; Baglioni, P.- Aqueous polyacrylic acid based gels: Physicochemical properties and applications in cultural heritage conservation. *Progress in Colloid & Polymer Science* 2004, 123, 280-283.
253. Bonini, M.; Wiedenmann, A.; Baglioni, P.- Small angle polarized neutrons (SANS POL) investigation of surfactant free magnetic fluid of uncoated and silica-coated cobalt-ferrite nanoparticles. *Journal of Physical Chemistry B* 2004, 108, 14901-14906.
254. Bonini, M.; Wiedenmann, A.; Baglioni, P.- Synthesis and characterization of surfactant and silica-coated cobalt ferrite nanoparticles. *Physica A: Statistical Mechanics and Its Applications* 2004, 339, 86-91.
255. Bonechi, C.; Donati, A.; Martini, S.; Rossi, C.; Arduini, A.; Pochini, A.; Lonetti, B.; Baglioni, P.- Analysis of the p-tert-butylcalix[4]arene bis-crown Derivative (Dc3)-Acetonitrile Host-Guest Complexing Behavior by Nuclear Magnetic Resonance (NMR) Spectroscopy and Computational Methods. *Journal of Physical Chemistry B* 2004, 108, 7603-7610.
256. Bombelli, F. B.; Berti, D.; Pini, F.; Keiderling, U.; Baglioni, P.- Flexibility of dilauroyl-phosphatidyl-nucleoside wormlike micelles in aqueous solutions. *Journal of Physical Chemistry B* 2004, 108, 16427-16434.
257. Baglioni, P.; Fratini, E.; Lonetti, B.; Chen, S. H. - Structural arrest in concentrated cytochrome C solutions: the effect of pH and salts. *J Phys-Condens Mat* 2004, 16, S5003-S5022.

258. Baglioni, P.; Fratini, E.; Lonetti, B.; Chen, S. H. - Gelation in Cytochrome C concentrated solutions near the isoelectric point: the anion role. *Current Opinion in Colloid & Interface Science* 2004, 9, 38-42.
259. Ambrosi, M.; Lo Nostro, P.; Fratoni, L.; Dei, L.; Ninham, B. W.; Palma, S.; Manzo, R. H.; Allemandi, D.; Baglioni, P.- Water of hydration in coagels. *Physical Chemistry Chemical Physics* 2004, 6, 1401-1407.
260. Alesiani, M.; Capuani, S.; Giorgi, R.; Maraviglia, B.; Pirazzoli, I.; Ridi, F.; Baglioni, P.- Influence of Cellulosic Additives on Tricalcium Silicate Hydration: Nuclear Magnetic Resonance Relaxation Time Analysis. *Journal of Physical Chemistry B* 2004, 108, 4869-4874.
261. Russo, D.; Baglioni, P.; Peroni, E.; Teixeira, J. - Hydration water dynamics of a completely hydrophobic oligopeptide. *Chemical Physics* 2003, 292, 235-245.
262. Ridi, F.; Dei, L.; Fratini, E.; Chen, S. H.; Baglioni, P.- Hydration kinetics of tri-calcium silicate in the presence of superplasticizers. *Journal of Physical Chemistry B* 2003, 107, 1056-1061.
263. Monduzzi, M.; Caboi, F.; Mele, S.; Murgia, S.; Baglioni, P.; Ninham, B. W. - Microstructure and percolation of Concentrated w/o Microemulsions. In *Self-Assembly*, Ed. Brian H. Robinson, IOS Press: Amsterdam, the Netherlands, 2003, 251-259.
264. Mecheri, B.; Baglioni, P.; Pieroni, O.; Caminati, G. - Molecular switching in nano-structured photochromic films of biopolymers. *Materials Science & Engineering, C: Biomimetic and Supramolecular Systems* 2003, C23, 893-896.
265. Lo Nostro, P.; Ninham, B. W.; Baglioni, P.- Polypseudorotaxanes from β -Cyclodextrin. In *Self-Assembly*, Ed. Brian H. Robinson, IOS Press: Amsterdam, the Netherlands, 2003, 160-174.
266. Lo Nostro, P.; Santoni, I.; Bonini, M.; Baglioni, P.- Inclusion Compound from a Semi-fluorinated Alkane and β -Cyclodextrin. *Langmuir* 2003, 19, 2313-2317.
267. Lo Nostro, P.; Ninham, B. W.; Fratoni, L.; Palma, S.; Manzo, R. H.; Allemandi, D.; Baglioni, P.- Effect of Water Structure on the Formation of Coagels from Ascorbyl-Alkanoates. *Langmuir* 2003, 19, 3222-3228.
268. Lo Nostro, P.; Fratoni, L.; Ridi, F.; Baglioni, P.- Surface treatments on Tencel fabric: Grafting with β -cyclodextrin. *Journal of Applied Polymer Science* 2003, 88, 706-715.
269. Lo Nostro, P.; Ninham, B. W.; Ambrosi, M.; Fratoni, L.; Palma, S.; Allemandi, D.; Baglioni, P.- Hofmeister Effect in Coagels of Ascorbic Acid Based Surfactants. *Langmuir* 2003, 19, 9583-9591.
270. Gambinossi, F.; Mannini, M.; Baglioni, P.; Caminati, G. - Spectroscopic properties of Langmuir-Blodgett films containing a potential-sensitive dye. *Materials Science & Engineering, C: Biomimetic and Supramolecular Systems* 2003, C23, 897-902.
271. Gambi, C. M. C.; Giordano, R.; Chittofrati, A.; Pieri, R.; Baglioni, P.; Teixeira, J. - Counterion and Temperature Effects on Aqueous Ionic Perfluoropolyether Micellar Solutions by Small-Angle Neutron Scattering. *Journal of Physical Chemistry A* 2003, 107, 11558-11564.
272. Fratini, E.; Chen, S. H.; Baglioni, P.- Investigation of the Temporal Evolution of Translational Dynamics of Water Molecules in Hydrated Calcium Aluminate Pastes. *Journal of Physical Chemistry B* 2003, 107, 10057-10062.

273. Chiaramonti, D.; Bonini, M.; Fratini, E.; Tondi, G.; Gartner, K.; Bridgwater, A. V.; Grimm, H. P.; Soldaini, I.; Webster, A.; Baglioni, P.- Development of emulsions from biomass pyrolysis liquid and diesel and their use in engines - Part 1 : emulsion production. *Biomass and Bioenergy* 2003, 25, 85-99.
274. Chiaramonti, D.; Bonini, M.; Fratini, E.; Tondi, G.; Gartner, K.; Bridgwater, A. V.; Grimm, H. P.; Soldaini, I.; Webster, A.; Baglioni, P.- Development of emulsions from biomass pyrolysis liquid and diesel and their use in engines - Part 2: tests in diesel engines. *Biomass and Bioenergy* 2003, 25, 101-111.
275. Carretti, E.; Dei, L.; Baglioni, P.- Solubilization of Acrylic and Vinyl Polymers in Nanocontainer Solutions. Application of Microemulsions and Micelles to Cultural Heritage Conservation. *Langmuir* 2003, 19, 7867-7872.
276. Berti, D.; Baldelli Bombelli, F.; Almgren, M.; Baglioni, P.- Micellar Aggregates Formed by Dilauroylphosphatidyl-nucleosides. In *Self-Assembly*, Ed. Brian H. Robinson, IOS Press: Amsterdam, the Netherlands, 2003, 348-357
277. Becheri, A.; Lo Nostro, P.; Ninham, B. W.; Baglioni, P.- The Curious World of Polypseudorotaxanes: Cyclodextrins As Probes of Water Structure. *Journal of Physical Chemistry B* 2003, 107, 3979-3987.
278. Baglioni, P.; Carretti, E.; Dei, L.; Giorgi, R. - Nanotechnology in Wall Painting Conservation. In *Self-Assembly*, Ed. Brian H. Robinson, IOS Press: Amsterdam, the Netherlands, 2003, 32-41.
279. Baglioni, P.; Carretti, E.; Dei, L.; Weiss, R. G. - Physicochemical Properties of Polyallylamine Based Gels with CO₂ as Gellant. *Journal of American Chemistry Society* 2003, 125, 5121-5128.
280. Baglioni, P.; Berti, D. - Self assembly in micelles combining stacking and H-bonding. *Current Opinion in Colloid & Interface Science* 2003, 8, 55-61.
281. Baglioni, P.; Bonini, M. - The role of the science of colloids and interfaces in formulation techniques. *Chimica e l'Industria* 2003, 85(7), 19-20.
282. Scaffei, L.; Lanzi, L.; Gambi, C. M. C.; Giordano, R.; Baglioni, P.; Teixeira, J. - Study by Small-Angle Neutron Scattering of Sodium Dodecyl Sulfate Micelles with the Macrocyclic Ligand [2.2.2]Cryptand. *Journal of Physical Chemistry B* 2002, 106, 10771-10776.
283. Peroni, E.; Caminati, G.; Baglioni, P.; Nuti, F.; Chelli, M.; Papini, A. M. - A new lipophilic fluorescent probe for interaction studies of bioactive lipopeptides with membrane models. *Bioorganic & Medicinal Chemistry Letters* 2002, 12, 1731-1734.
284. Lo Nostro, P.; Lopes, J. R.; Ninham, B. W.; Baglioni, P.- Effect of Cations and Anions on the Formation of Polypseudorotaxanes. *Journal of Physical Chemistry B* 2002, 106, 2166-2174.
285. Lo Nostro, P.; Fratoni, L.; Ninham, B. W.; Baglioni, P.- Water Absorbency by Wool Fibers: Hofmeister Effect. *Biomacromolecules* 2002, 3, 1217-1224.
286. Lo Nostro, P.; Fratoni, L.; Baglioni, P.- Modification of a cellulosic fabric with .beta.-cyclodextrin for textile finishing applications. *Journal of Inclusion Phenomena and Macrocyclic Chemistry* 2002, 44, 423-427.
287. Giorgi, R.; Dei, L.; Schettino, C. V.; Baglioni, P.- A New Method for Paper Deacidification based on Calcium Hydroxide dispersed in Non-Aqueous Media. In " *Works of Art on Paper, Books, documents and Photographs: Technique and Conservation*, IIC 2002, 69-73.

288. Giorgi, R.; Dei, L.; Ceccato, M.; Schettino, C. V.; Baglioni, P.- Nanotechnologies for conservation of cultural heritage: paper and canvas deacidification. *Langmuir* 2002, 18, 8198-8203.
289. Gambi, C. M. C.; Giordano, R.; Laurati, M.; Lanzi, L.; Pini, F.; Baglioni, P.- SANS analysis of perfluoropolyether water-in-oil microemulsions by hard sphere and adhesive hard sphere potentials. *Applied Physics A: Materials Science & Processing* 2002, 74, S377-S379.
290. Gambi, C. M. C.; Giordano, R.; Chittofrati, A.; Pieri, R.; Baglioni, P.; Teixeira, J. - SANS analysis of aqueous ionic perfluoropolyether micelles. *Applied Physics A: Materials Science & Processing* 2002, 74, S436-S438.
291. Fratini, E.; Chen, S. H.; Baglioni, P.; Bellissent-Funel, M. C. - Quasi-elastic neutron scattering study of translational dynamics of hydration water in tricalcium silicate. *Journal of Physical Chemistry B* 2002, 106, 158-166.
292. Fratini, E.; Chen, S. H.; Baglioni, P.; Cook, J. C.; Copley, J. R. D. - Dynamic scaling of quasielastic neutron scattering spectra from interfacial water. *Physical Review E: Statistical, Nonlinear, and Soft Matter Physics* 2002, 65, 010201/010201-010201/010204.
293. Fratini, E.; Faraone, A.; Baglioni, P.; Bellissent-Funel, M. C.; Chen, S. H. - Dynamic scaling of QENS spectra of glassy water in aging cement paste. *Physica A: Statistical Mechanics and Its Applications* 2002, 304(1-2), 1-10.
294. Faraone, A.; Chen, S. H.; Fratini, E.; Baglioni, P.; Liu, L.; Brown, C. - Rotational dynamics of hydration water in dicalcium silicate by quasielastic neutron scattering. *Physical Review E: Statistical, Nonlinear, and Soft Matter Physics* 2002, 65, 040501/040501-040501/040504.
295. Damasceni, A.; Dei, L.; Fratini, E.; Ridi, F.; Chen, S. H.; Baglioni, P.- A Novel Approach Based on Differential Scanning Calorimetry Applied to the Study of Tricalcium Silicate Hydration Kinetics. *Journal of Physical Chemistry B* 2002, 106, 11572-11578.
296. Croce, A. C.; Supino, R.; Lanza, K. S.; Locatelli, D.; Baglioni, P.; Bottioli, G. - Photosensitizer accumulation in spontaneous multidrug resistant cells: a comparative study with Rhodamine 123, Rose Bengal acetate and Photofrin. *Photochemical & Photobiological Sciences* 2002, 1, 71-78.
297. Chiamonti, D.; Martelli, F.; Tondi, G.; Bonini, M.; Baglioni, P.- Biomass pyrolysis for liquid co-firing in existing oil power plants: can Italy be a potential market? *Pyrolysis and Gasification of Biomass and Waste, Proceedings of an Expert Meeting, Strasbourg, France, Sept 2002*, 1-872691.
298. Bonini, M.; Bardi, U.; Berti, D.; Neto, C.; Baglioni, P.- A New Way to Prepare Nanostructured Materials: Flame Spraying of Microemulsions. *Journal of Physical Chemistry B* 2002, 106, 6178-6183.
299. Berti, D.; Keiderling, U.; Baglioni, P.- Supramolecular structures formed by phospholiponucleosides: Aggregational properties and molecular recognition. *Progress in Colloid & Polymer Science* 2002, 120, 64-73.
300. Berti, D.; Randazzo, D.; Briganti, F.; Scozzafava, A.; Di Gennaro, P.; Galli, E.; Bestetti, G.; Baglioni, P.- Nonionic micelles promote whole cell bioconversion of aromatic substrates in an aqueous environment. *Langmuir* 2002, 18, 6015-6020.
301. Berti, D.; Fratini, E.; Dante, S.; Hauss, T.; Baglioni, P.- A structural study of lamellar phases formed by nucleoside-functionalized lipids. *Applied Physics A: Materials Science & Processing* 2002, 74, S522-S524.

302. Baldelli Bombelli, F.; Berti, D.; Keiderling, U.; Baglioni, P.- Giant Polymerlike Micelles Formed by Nucleoside-Functionalized Lipids. *Journal of Physical Chemistry B* 2002, 106, 11613-11621.
303. Baldelli Bombelli, F.; Berti, D.; Keiderling, U.; Baglioni, P.- Living polynucleotides formed by the spontaneous aggregation of dilauroylphosphonucleosides. *Applied Physics A: Materials Science & Processing* 2002, 74, S1270-S1273.
304. Baglioni, P.; Bonini, M. - Nanotechnologies. *Chimica e l'Industria* 2002, 84(1), 43.
305. Baglioni, P.; Fratini, E.; Chen, S. H. - Glassy dynamics of water in hydrated cement paste. *Applied Physics A: Materials Science & Processing* 2002, 74, S1178-S1181.
306. Alesiani, M.; Capuani, S.; Maraviglia, B.; Giorgi, R.; Baglioni, P.- Effects induced in marbles by water-repellent compounds: the NMR contribution. *Applied Magnetic Resonance* 2002, 23, 63-73.
307. Randazzo, D.; Berti, D.; Briganti, F.; Baglioni, P.; Scozzafava, A.; Di Gennaro, P.; Galli, E.; Bestetti, G. - Efficient polycyclic aromatic hydrocarbons dihydroxylation in direct micellar systems. *Biotechnology and Bioengineering* 2001, 74, 240-248.
308. Mauro, M.; Baglioni, P.; Casas Pérez, M. C.; Colombini, M. P.; Dei, L.; Francesconi, L.; Modugno, F. - The mural Paintings of " Altar de los Reyes " by Cristobal De Villalpando in the Puebla Cathedral (Mexico): Research about Conservation and Painting Technique. *Proceedings of the 1st National Congress 'Science of Art', Bressanone, February 26- March 1, 2001, pp. 371-376.*
309. Lo Nostro, P.; Corrieri, D.; Ceccato, M.; Baglioni, P.- Enzymatic Treatments on Tencel in Water and Microemulsion. *Journal of Colloid and Interface Science* 2001, 236, 270-281.
310. Lo Nostro, P.; Capuzzi, G.; Fratini, E.; Dei, L.; Baglioni, P.- Modulation of interfacial properties of functionalized calixarenes. *Progress in Colloid & Polymer Science* 2001, 118, 238-242.
311. Fratini, E.; Chen, S. H.; Baglioni, P.; Bellissent-Funel, M. C. - Age-dependent dynamics of water in hydrated cement paste. *Physical Review E: Statistical, Nonlinear, and Soft Matter Physics* 2001, 64, 020201/020201-020201/020204.
312. Dei, L.; Giorgi, R.; Baglioni, P.- Calcium hydroxide dispersions in organic solvents. *Langmuir* 2001, 17, 4251.
313. Chen, S. H.; Liao, C.; Fratini, E.; Baglioni, P.; Mallamace, F. - Interaction, critical, percolation and kinetic glass transitions in pluronic L-64 micellar solutions. *Colloids and Surfaces, A: Physicochemical and Engineering Aspects* 2001, 0927-7757.
314. Carretti, E.; Dei, L.; Miliani, C.; Baglioni, P.- Oil-in-water microemulsions to solubilize acrylic copolymers: application in cultural heritage conservation. *Progress in Colloid & Polymer Science* 2001, 118, 63-67.
315. Baglioni, P.; Cesari, C.; Dei, L.; Giorgi, R.; Grassi, R.; Lorenzetti, M.; Mauro, M.; Pinzani, D.; Ruffo, P.; Schonhaut, G. - Stucco forte veneziano con "tecniche della tradizione": proprietà chimico-fisiche, degrado in ambiente lagunare e conservazione mediante nanofasi cristalline. *XVII Convegno Scienza e Beni Culturali " Lo stucco: Cultura, Tecnologia, Conoscenza" 2001, 289-298.*
316. Ambrosi, M.; Dei, L.; Giorgi, R.; Neto, C.; Baglioni, P.- Colloidal particles of Ca(OH)₂: properties and applications to restoration of frescoes. *Langmuir* 2001, 17, 4251-4255.

317. Ambrosi, M.; Dei, L.; Giorgi, R.; Neto, C.; Baglioni, P.- Stable dispersions of Ca(OH)₂ in aliphatic alcohols: properties and application in cultural heritage conservation. *Progress in Colloid & Polymer Science* 2001, 118, 68-72.
318. Peroni, E.; Caminati, G.; Baglioni, P.; Chelli, M.; Papini, A. M. - A new lipophilic fluorescent probe for interaction studies of bioactive lipopeptides with membrane models. *Peptides* 2000, 048-044.
319. Neto, C.; Berti, D.; Aloisi, G. D.; Baglioni, P.; Larsson, K. - In situ study of soft matter with atomic force microscopy and light scattering. *Progress in Colloid & Polymer Science* 2000, 115, 295-299.
320. Giorgi, R.; Dei, L.; Baglioni, P.- A new method for consolidating wall paintings based on dispersions of lime in alcohol. *Studies in Conservation* 2000, 45, 154-161.
321. Gambi, C. M. C.; Giordano, R.; Pini, F.; Baglioni, P.; Chittofrati, A. - Water in oil microemulsions with perfluoropolyethers: structural study by small-angle neutron scattering. In *Proceedings of the 5th World Surfactants Congress - Cesio 2000, Florence, May 29 - June 3, 2000*, pp 517-524.
322. Drioli, E.; Baglioni, P.; Gatteschi, D.; Tundo, P. - Letters to the editor. From interuniversity consortiums to national institutes? *Chimica e l'Industria* 2000, 82(3), 285.
323. Dei, L.; Carretti, E.; Baglioni, P.- Microemulsions in cultural heritage conservation to solubilize hydrophobic material. In *Proceedings of the 5th World Surfactants Congress - Cesio 2000, Florence, May 29 - June 3, 2000*, pp 517-524.
324. Castelvetro, V.; Ciardelli, F.; Francini, G.; Baglioni, P.- On the surface properties of waterborne fluorinated coating polymers. *Macromolecular Materials and Engineering* 2000, 278, 6-16.
325. Capuzzi, G.; Fratini, E.; Pini, F.; Baglioni, P.; Casnati, A.; Teixeira, J. - Counterion Complexation by Calixarene Ligands in Cesium and Potassium Dodecyl Sulfate Micelles. A Small Angle Neutron Scattering Study. *Langmuir* 2000, 16, 188-194.
326. Capuzzi, G.; Fratini, E.; Dei, L.; Lo Nostro, P.; Casnati, A.; Gilles, R.; Baglioni, P.- Counterion complexation of calixarene ligands in monolayers and micellar solutions. *Colloids and Surfaces, A: Physicochemical and Engineering Aspects* 2000, 167, 105-113.
327. Capuzzi, G.; Pini, F.; Dei, L.; Lo Nostro, P.; Fratini, E.; Gilles, R.; Baglioni, P.- Complexation properties of 1,3-dialkoxycalix[4]arene-crown derivatives: a SANS study. *Physica B: Condensed Matter* 2000, 276-278, 384-385.
328. Bitossi, G.; Baglioni, P.; Dei, L.; Mauro, M. - Caratterizzazione chimico-fisica dei materiali pittorici. *La Madonna di Bernardo Daddi negli "Horti" di San Michele, Sillabe, Livorno (Italy), 2000*, 61-63.
329. Berti, D.; Luisi, P. L.; Baglioni, P.- Molecular recognition in supramolecular structures formed by phosphatidyl nucleosides-based amphiphiles. *Colloids and Surfaces, A: Physicochemical and Engineering Aspects* 2000, 167, 95-103.
330. Berti, D.; Pini, F.; Baglioni, P.; Teixeira, J. - A SANS investigation on micelles from short-chain phospholiponucleosides. *Physica B: Condensed Matter* 2000, 276-278, 334-336.
331. Berti, D.; Randazzo, D.; Briganti, F.; Baglioni, P.; Scozzafava, A.; Di Gennaro, P.; Galli, E.; Bestetti, G. - Direct micellar systems as a tool to improve the efficiency of aromatic substrate conversion for fine chemicals production. *Journal of Inorganic Biochemistry* 2000, 79, 103-108.
332. Baglioni, P.; Bitossi, G.; Dei, L.; Mauro, M. - Physicochemical Investigation of Black Pigments. *Restoration of the sala delle Udienze in Palazzo Vecchio* 2000, 53.

333. Baglioni, P.; Berti, D.; Bonini, M. - Preparation and stability of emulsions. *Chimica e l'Industria* 2000, 82(7), E1/1-E1/8.
334. Baglioni, P.; Chiaramonti, D.; Bonini, M.; Soldaini, I.; Tondi, G. - Bio-Crude-Oil/diesel oil emulsification: main achievements of the emulsification process and preliminary results of tests on diesel engine. *Progress in Thermochemical Biomass Conversion*, [Conference], 5th, Tyrol, Austria, Sept. 17-22, 2000 (2001), Meeting Date 2000, Volume 2, 1525-1539. Editor(s): Bridgwater, A. V. Publisher: Blackwell Science Ltd., Oxford, 2002, UK.
335. Ambrosi, M.; Baglioni, P.; David, P. R.; Dei, L.; Giorgi, R.; Lalli, C.; Mairani, A.; Matteini, M.; Rizzi, M.; Schonhaut, G.; Lanterna, G. "Inorganic consolidants and protectives for architectonic surfaces: experimental tests on Santa Prisca church apse in Rome" In *Proceedings of International Symposium Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin*, Elsevier-Amsterdam, 1999, 873-877.
336. Alesiani, M.; Baglioni, P.; Capuani, S.; Giorgi, R.; Mancini, L.; Maraviglia, B. - New results in the application of innovative experimental technique for investigations of stone decay's processes. *XI International Congress on Deterioration and Conservation of Stone*. 2000, Venice, pp. 587-592.
337. Alesiani, M.; Baglioni, P.; Capuani, S.; Giorgi, R.; Mancini, L.; Maraviglia, B. - Application of nuclear magnetic resonance tomography in the study of porous materials: stones and mortars of historical and artistic value. in *Proceedings of International Symposium Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin*, Elsevier-Amsterdam, 1999, 483-489.
338. Sheu, E. Y.; Lo Nostro, P.; Capuzzi, G.; Baglioni, P.- Micelle and Microemulsion Properties of Cesium Di-Dodecyl- Dimethylsulfosuccinate (sic), Cs-AOT. *Langmuir* 1999, 15, 6671-6676.
339. Neto, C.; Aloisi, G. D.; Baglioni, P.; Larsson, K. - Imaging Soft Matter with the Atomic Force Microscope: Cubosomes and Hexosomes. *Journal of Physical Chemistry B* 1999, 103, 3896-3899.
340. Lo Nostro, P.; Ceccato, M.; Baglioni, P.- Preparation of polyrotaxanes and molecular tubes for host-guest systems. In *Polysaccharides Applications, Cosmetics and Pharmaceuticals*, Magda A. El-Nokaly and Helena A. Soini Eds., ACS Symposium Series, Washington: 1999, vol. 737, pp 46-67..
341. Dei, L.; Baglioni, P.; Mauro, M. - Materials for Wall Paintings Conservation: Changes of Physicochemical Properties, Aging Effects and Reversibility. In *Preprints of the Conference Reversibility: Does it Exist ?*, Oddy, A. & Carroll S. Eds., The British Museum, London, 8-10 September 1999, pp. 73-80.
342. Dei, L.; Baglioni, P.; Mauro, M. - Materials for Wall Painting Conservation: Physicochemical Properties and Aging Effects. In *Proceedings of the 6th International Conference on "Non Destructive Testing and Microanalysis for the Diagnostics and Conservation of Cultural and Environmental Heritage, Art '99"*, Rome, May 17 - 20, 1999, pp. 543-554..
343. Dei, L.; Baglioni, P.; Bitossi, G.; Mauro, M. - Thermal Analysis in the Characterisation of Salt Efflorescences in Cultural Heritage Conservation, in *Proceedings of the 6th International Conference on "Non Destructive Testing and Microanalysis for the Diagnostics and Conservation of Cultural and Environmental Heritage, Art '99"*, Rome, May 17 - 20, 1999, pp. 531-542.
344. Dei, L.; Mauro, M.; Baglioni, P.; Manganelli Del Fà, C.; Fratini, E. - Nucleation and growth of crystalline phases in porous media. *Langmuir* 1999, 15, 8915-8922.
345. Dei, L.; Mauro, M.; Baglioni, P.; Manganelli Del Fà, C.; Fratini, E. - Growth of crystal phases in porous media. *Langmuir* 1999, 15, 8915-8922.

346. Capuzzi, G.; Baglioni, P.; Gambi, C. M. C.; Sheu, E. Y. - Percolation phenomenon of calcium bis(2-ethylhexyl) sulfosuccinate water-in-oil microemulsions by conductivity and dielectric spectroscopy measurements. *Physical Review E: Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics* 1999, 60, 792-798.
347. Briganti, F.; Randazzo, D.; Scozzafava, A.; Berti, D.; Baglioni, P.; Di Gennaro, P.; Galli, E.; Bestetti, G. - Characterization of the biological conversion of naphthalene to (+)-cis-(1R,2S)-dihydroxy-1,2-dihydronaphthalene in direct micellar systems. *Journal of Molecular Catalysis B: Enzymatic* 1999, 7, 263-272.
348. Berti, D.; Pini, F.; Baglioni, P.; Teixeira, J. - Micellar Aggregates from Short-Chain Phospholiponucleosides: A SANS Study. *Journal of Physical Chemistry B* 1999, 103, 1738-1745.
349. Berti, D.; Barbaro, P.; Bucci, I.; Baglioni, P.- Molecular Recognition through H-Bonding in Micelles Formed by Dioctylphosphatidyl Nucleosides. *Journal of Physical Chemistry B* 1999, 103, 4916-4922.
350. Baglioni, P.; Giorgi, R. - Innovative physicochemical methodologies for the preventive conservation of wall paintings. *Bollettino OPD-Restauro* 1999, 76.
351. Baglioni, P.; Dei, L.; Fratini, F.; Giorgi, R.; Grassi, R.; Lorenzetti, M.; Manganelli Del Fa, C.; Mauro, M.; Pinzani, D.; Tonini, P. - Chemical diagnostics for conservation in the secondary schools: the projects for the restoration of SS. Annunziata Portico and Carmine Basilica decorations. In "Proceedings of International Symposium on Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin", Elsevier, Amsterdam, 1999, 855-861.
352. Dei, L.; Lo Nostro, P.; Capuzzi, G.; Baglioni, P.- Langmuir Films of p-tert-Butylcalix[8]arene. Conformations at the Water-Air Interface and Complexation of Fullerene C60. *Langmuir* 1998, 14, 4143-4147.
353. Dei, L., Baglioni, P.E. Ferroni, A. Ahle, A. M. Maetzke A. Parronchi and M. Spampinato, Mediaeval Polychrome Sculptures in Arezzo: History and Painting Technique, Preprints of the 17th IIC Congress, Dublin, 6 - 11 September 1998, IIC Publishers, London, 1998, 3.
354. Dei, L.; Ahle, A.; Baglioni, P.; Dini, D.; Ferroni, E. - Green degradation products of azurite in wall paintings: identification and conservation treatment. *Studies in Conservation* 1998, 43, 80-88.
355. Berti, D.; Baglioni, P.; Bonaccio, S.; Barsacchi-Bo, G.; Luisi, P. L. - Base complementarity and nucleoside recognition in phosphatidyl nucleoside vesicles. *Journal of Physical Chemistry B* 1998, 102, 303-308.
356. Ceccato, M.; Lo Nostro, P.; Baglioni, P.-.alpha.-Cyclodextrin/polyethylene glycol polyrotaxane: a study of the threading process. *Langmuir* 1997, 13, 2436-2439.
357. Ceccato, M.; Lo Nostro, P.; Rossi, C.; Bonechi, C.; Donati, A.; Baglioni, P.- Molecular Dynamics of Novel .alpha.-Cyclodextrin Adducts Studied by ¹³C-NMR Relaxation. *Journal of Physical Chemistry B* 1997, 101, 5094-5099.
358. Capuzzi, G.; Pini, F.; Gambi, C. M. C.; Monduzzi, M.; Baglioni, P.; Teixeira, J. - Small-Angle Neutron Scattering of Ca(AOT)₂/D₂O/Decane Microemulsions. *Langmuir* 1997, 13, 6927-6930.
359. Campagna, M.; Dei, L.; Gambi, C. M. C.; Lo Nostro, P.; Zini, S.; Baglioni, P.- Micellar Solutions of Octyl-18-crown-6. *Journal of Physical Chemistry B* 1997, 101, 10373-10377.

360. Caboi, F.; Capuzzi, G.; Baglioni, P.; Monduzzi, M. - Microstructure of Ca-AOT/Water/Decane w/o Microemulsions. *Journal of Physical Chemistry B* 1997, 101, 10205-10212.
361. Bottioli, G.; Croce, A. C.; Balzarini, P.; Locatelli, D.; Baglioni, P.; Lo Nostro, P.; Monici, M.; Pratesi, R. - Enzyme-assisted cell photosensitization: a proposal for an efficient approach to tumor therapy and diagnosis. The rose bengal fluorogenic substrate. *Photochemistry and Photobiology* 1997, 66, 374-383.
362. Berti, D.; Franchi, L.; Baglioni, P.; Luisi, P. L. - Molecular Recognition in Monolayers. Complementary Base Pairing in Dioleoylphosphatidyl Derivatives of Adenosine, Uridine, and Cytidine. *Langmuir* 1997, 13, 3438-3444.
363. Baglioni, P.; Dei, L.; Piqué, F.; Sarti, G.; Ferroni, E. - New autogenous lime-based grouts used in the conservation of lime-based wall paintings. *Studies in Conservation* 1997, 42, 43-54.
364. Baglioni, P.; Gambi, C. M. C.; Giordano, R.; Teixeira, J. - Complexation of counter-ions in ionic micellar solutions: a small-angle neutron scattering study. *Colloids and Surfaces, A: Physicochemical and Engineering Aspects* 1997, 121, 47-52.
365. Baglioni, P.; Gambi, C. M. C.; Giordano, R.; Senatra, D. - SANS on fluorinated water-in-oil microemulsions. *Physica B: Condensed Matter* 1997, 234-236, 295-296.
366. Baglioni, P.; Gambi, C. M. C.; Giordano, R.; Lo Nostro, P. - SANS on micellar solutions of octyl-18-crown-6. *Physica B: Condensed Matter* 1997, 234-236, 300-302.
367. Sangregorio, C.; Galeotti, M.; Bardi, U.; Baglioni, P.- Synthesis of Cu₃Au Nanocluster Alloy in Reverse Micelles. *Langmuir* 1996, 12, 5800-5802.
368. Nees, D.; Blenkle, M.; Koschade, A.; Wolff, T.; Baglioni, P.; Dei, L. - Switching flow and phase behavior in surfactant systems via photochemical reactions. *Progress in Colloid & Polymer Science* 1996, 101, 75-85.
369. Lo Nostro, P.; Casnati, A.; Bossoletti, L.; Dei, L.; Baglioni, P.- Complexation properties of calixarenes in Langmuir films at the water-air interface. *Colloids and Surfaces, A: Physicochemical and Engineering Aspects* 1996, 116, 203-209.
370. Dei, L.; Casnati, A.; Lo Nostro, P.; Baglioni, P.- Supramolecular Properties of p-tert-Buthylcalix[6]srene Hexamide in Monolayers at the Water-air Interface. *Langmuir* 1996, 12, 1589.
371. Dei, L.; Casnati, A.; Lo Nostro, P.; Pochini, A.; Ungaro, R.; Baglioni, P.- Complexation Properties of p-tert-Butylcalix[6]arene Hexamide in Monolayers at the Water-Air Interface. *Langmuir* 1996, 12, 1589-1593.
372. Dei, L.; Baglioni, P.; Sarti, G.; Ferroni, E. - Aging effects on ammonium carbonate/acetone solutions and cleaning of works of art. *Studies in Conservation* 1996, 41, 9-18.
373. Carlà, M.; Gambi, C. M. C.; Baglioni, P.- Adsorption Properties of Cryptand 222 at the Charged Mercury-Solution Interface. *Journal of Physical Chemistry* 1996, 100, 11067-11071.
374. Baglioni, P.; Dei, L.; Ferroni, E. - Le priorità delle competenze chimiche per la compressione dei manoscritti alchemici. *Critica d'arte* LIX 1996, 6, 41.
375. Baglioni, P.; Gambi, C. M. C.; Giordano, R.; Senatra, D. - SANS study of a fluorinated water-in-oil microemulsion. *Journal of Molecular Structure* 1996, 383, 165-169.

376. Pratesi, R.; Croce, A. C.; Balzarini, P.; Bottiroli, G.; Baglioni, P.; Lo Nostro, P.; Monici, M. - A new approach for selective targeting in photodynamic therapy. in "Laser Spectroscopy", Inguscio, M., Allegrini, M., Sasso, A., Eds., World Scientific: Singapore, Singapore, 1996, 427-429.
377. Towey, T. F.; Baglioni, P.; Martini, G.; Ristori, S. - ESR Spectroscopy of Metal Bis(2-ethylhexyl) Sulfosuccinate Aggregates in Cyclohexane. *Journal of Physical Chemistry* 1995, 99, 3939-3942.
378. Sangregorio, C.; Baglioni, P.; Bardi, U.; Galeotti, M. - Preparation and characterization of gold and gold-copper alloy nanoclusters by precipitation in reverse micelles. *Advances in Science and Technology* 1995, 4(New Horizons for Materials), 347-352.
379. Poepl, A.; Baglioni, P.; Kevan, L. - Electron Spin Resonance and Electron Spin Echo Modulation Studies of the Incorporation of Macrocyclic-Complexed Cupric Ions into Siliceous MCM-41. *Journal of Physical Chemistry* 1995, 99, 14156-14160.
380. Monici, M.; Baglioni, P.; Mulinacci, N.; Baldi, A.; Vincieri, F. - The effect of light, temperature and microenvironments on the transformation of kaempferol and pelargonidin. *Colloques - Institut National de la Recherche Agronomique* 1995, 69, 199-200.
381. Dei, L.; Casnati, A.; Lo Nostro, P.; Pochini, A.; Ungaro, R.; Baglioni, P.- Complexation Species at Water-Air Interface: Selective Complexation by Calixarenes in Monolayers. *Proceedings of the II national Congress on Supramolecular Chemistry* 1995, 363-367.
382. Dei, L.; Casnati, A.; Lo Nostro, P.; Baglioni, P.- Selective Complexation by p-tert-Butylcalix[6]arene in Monolayers at the Water-Air Interface. *Langmuir* 1995, 11, 1268-1272.
383. Croce, A. C.; Balzarini, P.; Baglioni, P.; Lo Nostro, P.; Monici, M.; Bernabei, P. A.; Bottiroli, G. - Fotosensibilizzanti impiegati come substrati fluorogenici per il miglioramento della specificità della diagnosi per fluorescenza e della terapia fotodinamica dei tumori. *Laser e Luce in Chirurgia e Medicina ed in Biotecnologia* 1995, 349-356.
384. Baglioni, P.; Dei, L.; Gambi, C. M. C. - Hydrogen Isotope Substitution in a Water-in-Oil Microemulsion: Quasi-elastic Light Scattering. *Journal of Physical Chemistry* 1995, 99, 5035-5039.
385. Baglioni, P.; Gambi, C. M. C.; Giordano, R.; Teixeira, J. - The role of macrocyclic ligands in the structure of LDS micellar solutions. *Physica B: Condensed Matter* 1995, 213-214(1-4), 597-599.
386. Baglioni, P.; Kevan, L. - Methods of interface modification of micelles and how to monitor by electron spin resonance and electron spin echo modulation spectroscopies. *Heterogeneous Chemistry Reviews* 1995, 2, 1-15.
387. Piqué, F.; Baglioni, P.; Dei, L.; Ferroni, E. - Kinetics and Thermodynamics of the Calcium Nitrate/Water System applied to Wall Painting Conservation. *Science and Technology for Cultural Heritage* 1994, 3, 155.
388. Monici, M.; Baglioni, P.; Mulinacci, M.; Baldi, A.; Vincieri, F. - Suggestions for a photoprotective function of kaempferol and pelargonidin. *Medecine, Biologie, Environnement* 1994, 22, 3-11.
389. Monici, M.; Baglioni, P.; Mulinacci, M.; Baldi, A.; Vincieri, F. - A research model on flavonoids as photoprotectors: studies on the photochemistry of kaempferol and pelargonidin. *Acta Horticulturae* 1994, 381, 340-347.
390. Micheloni, M.; Baglioni, P.; Dei, L.; Ferroni, E. - Sulla natura delle efflorescenze presenti sull'affresco di Antonio da Fabriano in San Domenico a Fabriano, in *Un Testamento pittorico di fine'400. Affreschi restaurati di Antonio da Fabriano in San Domenico*, Arti Grafiche Gentile, Fabriano, 1994.

391. Liu, Y. C.; Baglioni, P.; Teixeira, J.; Chen, S. H. - Structure and Interaction of Lithium Dodecyl Sulfate Micelles in the Presence of Li-Specific Macrocyclic Cage: A Study by SANS. *Journal of Physical Chemistry* 1994, 98, 10208-10215.
392. Di Meglio, J. M.; Baglioni, P.- Sodium Dodecyl Sulfate-Poly(ethylene oxide) Association by Spin Labeling. *Journal of Physical Chemistry* 1994, 98, 5478-5480.
393. Di Meglio, J. M.; Baglioni, P.- Local dynamics of foam drainage investigated by ESR. *Journal of Physics: Condensed Matter* 1994, 6, A375-A380.
394. Baglioni, P.; Chen, S. H.; Liu, Y. C.; Teixeira, J.; Kevan, L. - Effect of Lithium Encapsulation by a Macrocyclic Aza Cage in Micellar Solution of Lithium Dodecyl Sulfate. *Colloids Surfaces A* 1994, 88, 59.
395. Baglioni, P.; Bencini, A.; Dei, L.; Gambi, C. M. C.; Lo Nostro, P. - Structure and aggregation of lithium dodecyl sulfate micellar solutions in the presence of a macrocyclic cage. *Journal of Physics: Condensed Matter* 1994, 6, A369-A373.
396. Monici, M.; Mulinacci, N.; Baglioni, P.; Vincieri, F. - Flavone photoreactivity. UV-induced reactions in organic solvents and micellar systems. *Journal of Photochemistry and Photobiology, B: Biology* 1993, 20, 167-172.
397. Baglioni, P.; Dei, L.; Sarti, G. - Contribution to the Infrared Spectral Library in Artist and Artisan materials. *Infrared Spectral Library*, compiled by M. Derrick and M. Gergen, Ed. The Getty Conservation Institute, Marina del Rey, July, 1993.
398. Baglioni, P.; Dei, L.; Rivara-Minten, E.; Kevan, L. - Mixed micelles of SDS/C12E6 and DTAC/C12E6 surfactants. *Journal of the American Chemical Society* 1993, 115, 4286-4290.
399. Baglioni, P.; Liu, Y. C.; Chen, S. H.; Teixeira, J. - Structure and aggregation of lithium dodecyl sulfate micelles in the presence of a macrocyclic cage: A SANS study. *Journal de Physique IV*, 1993, 3, 169-172.
400. Sakaguchi, M.; Baglioni, P.; Kevan, L. - Photoreduction of alkylmethylviologens with .alpha.-tocopherol in dioctadecyldimethyl-ammonium chloride vesicles. *Journal of Physical Chemistry* 1992, 96, 2772-2776.
401. Monici, M.; Baglioni, P.- UV-induced photoreaction of vitamin K1 in micellar systems. The influence of flavone on the process. *Medecine, Biologie, Environnement* 1992, 20, 83-89.
402. Ferroni, E.; Nocentini, M.; Baglioni, P.- Analisi FTIR di sostanze organiche presenti nel pigmento costituente il manto della Madonna d'Ognissanti in "La Madonna d'Ognissanti" di Giotto restaurata. *Gli Uffizi - Studi e Ricerche* 1992, 8, 119.
403. Ferroni, E.; Baglioni, P.; Sarti, G. - Interventi di consolidamento, un processo innovativo: malte a presa "autogena". In "La Cappella Brancacci, la scienza per Masaccio, Masolino e Filippino Lippi". Olivetti (Milano) 1992, 151-161.
404. Baglioni, P.; Dei, L.; Kevan, L.; Rivara-Minten, E. - Interface of mixed micelles formed of anionic-cationic and ionic-nonionic surfactants. Electron spin studies. In "Mixed Surfactant Systems" D.Rubingh and P.Holland Eds., ACS Symp. Ser., Washington 1992, Vol. 501, pp.180-193.
405. Nakamura, H.; Baglioni, P.; Kevan, L.; Matsuo, T. - Photoionization of phenothiazinyl- and (carbazolylalkyl)-trimethylammonium bromides in frozen AOT reversed micellar solutions studied by

- electron spin echo modulation and electron spin resonance. *Journal of Physical Chemistry* 1991, 95, 1480-1484.
406. Kang, Y. S.; Baglioni, P.; McManus, H. J. D.; Kevan, L. - Alkyl chain length effects on the photoionization of N-alkylphenothiazines and sulfonated alkylphenothiazines in anionic alkyl sulfate and cationic alkyltrimethylammonium bromide micelles. *Journal of Physical Chemistry* 1991, 95, 7944-7947.
 407. Baglioni, P.; Gambi, C. M. C.; Goldfarb, D. - Electron spin echo modulation study of Winsor microemulsions. *Journal of Physical Chemistry* 1991, 95, 2577-2583.
 408. Baglioni, P.; Nakamura, H.; Kevan, L. - Electron spin echo modulation study of AOT reverse micelles. *Journal of Physical Chemistry* 1991, 95, 3856-3859.
 409. Baglioni, P.; Gambi, C. M. C.; Goldfarb, D. - Pulse electron spin resonance and quasi-elastic light scattering of Winsor microemulsions. *Progress in Colloid & Polymer Science* 1991, 84, 133-138.
 410. Baglioni, P.; Dei, L.; Ferroni, E.; Kevan, L. - Electron spin echo modulation and electron spin resonance studies of sodium dodecylsulfate and dodecyltrimethylammonium bromide micellar solutions: effect of urea addition. *Progress in Colloid & Polymer Science* 1991, 84, 55-60.
 411. Baglioni, P.; Rivara-Minten, E.; Stenland, C.; Kevan, L. - Photoionization of N,N,N',N'-tetramethylbenzidine in a mixed micelle of ionic and nonionic surfactants: electron spin-echo modulation and electron spin resonance studies. *Journal of Physical Chemistry* 1991, 95, 10169-10172.
 412. Baglioni, P.; Dei, L.; Ferroni, E.; Gabrielli, G. - Mixed monolayers and bilayers of phospholipids with poly- γ -methyl-L- glutamate in α -helices: rheological and electrical behavior. *Colloids and Surfaces* 1991, 60, 399-412.
 413. Kevan, L.; Baglioni, P. - Electron spin-echo modulation studies of ionic and nonionic micelle structure via stearic acid nitroxide probes. *Pure and Applied Chemistry* 1990, 62, 275-280.
 414. Baglioni, P.; Hu, M.; Kevan, L. - Electron spin resonance and electron spin echo modulation spectroscopic studies of the photoionization of phenothiazine derivatives in alkyl sulfate and alkyltrimethylammonium bromide micellar solutions. *Journal of Physical Chemistry* 1990, 94, 2586-2590.
 415. Baglioni, P.; Ferroni, E.; Kevan, L. - Electron spin echo modulation study of sodium dodecyl sulfate and dodecyltrimethylammonium bromide micellar solutions in the presence of urea: evidence for urea interaction at the micellar surface. *Journal of Physical Chemistry* 1990, 94, 4296-4298.
 416. Baglioni, P.; Rivara-Minten, E.; Dei, L.; Ferroni, E. - ESR study of sodium dodecyl sulfate and dodecyltrimethylammonium bromide micellar solutions: effect of urea. *Journal of Physical Chemistry* 1990, 94, 8218-8222.
 417. Baglioni, P.; Dei, L.; Kevan, L. - Application of electron spin resonance and electron spin echo modulation to the study of polymeric latex interfaces. *Trends in Polymer Science* 1990, 1(1), 73-82.
 418. Niccolai, A.; Baglioni, P.; Dei, L.; Gabrielli, G. - Monolayers of 1,2,3-propanetriol esters at the air-water interface: two-dimensional phases and miscibility. *Colloid and Polymer Science* 1989, 267, 262-268.
 419. Dei, L.; Baglioni, P.; Carlà, M.; Martini, E. - Mixed Monomolecular Films of a Poly-Methyl-L- glutamate with 5- and 16-Doxylstearic Acid at Water-air Interface: Interactions between the Spin Probes

- and the Polypeptide. In "Surfactants in Solution" K.L.Mittal and D.K.Chattoraj, Plenum Press, N.Y. 1989, vol. 8, pp. 435-444.
420. Baglioni, P.; Cocciaro, R.; Dei, L. - An ESR and Z-Potential Study of the Interface of a Carboxylated Latex. In "Surfactants in Solution" K.L.Mittal and D.K.Chattoraj, Plenum Press, N.Y. 1989, vol. 10, pp. 417-425.
421. Baglioni, P.; Rivara-Minten, E.; Kevan, L. - Electron spin resonance and electron spin echo modulation studies of N,N,N',N'-tetramethylbenzidine photoionization adsorbed at the interface of polymeric latices. *Journal of Physical Chemistry* 1989, 93, 1570-1572.
422. Baglioni, P.; Bongiovanni, R.; Rivara-Minten, E. - Electron spin-echo modulation of x-doxylstearic acid in nonionic surfactants. *Journal of Physical Chemistry* 1989, 93, 5574-5578.
423. Rivara-Minten, E.; Baglioni, P.; Kevan, L. - Photoionization of N,N,N',N'-tetramethylbenzidine in anionic-cationic mixed micelles of sodium dodecyl sulfate-dodecyltrimethylammonium chloride: electron spin resonance and electron spin echo modulation studies. *Journal of Physical Chemistry* 1988, 92, 2613-2615.
424. Baglioni, P.; Kevan, L. - Electron spin resonance and electron spin-echo modulation studies of 5-doxylstearic acid and N,N,N',N'-tetramethylbenzidine photoionization in sodium dodecyl sulfate micelles: effects of 15-crown-5 and 18-crown-6 ether addition. *Journal of the Chemical Society, Faraday Transactions 1: Physical Chemistry in Condensed Phases* 1988, 84, 467-472.
425. Baglioni, P.; Rivara-Minten, E.; Kevan, L. - Electron spin resonance and electron spin echo modulation of n-doxylstearic acid and N,N,N',N'-tetramethylbenzidine photoionization in sodium versus lithium dodecylsulfate micellar solutions: effect of 15-crown-5 and 18-crown-6 ether addition. *Journal of Physical Chemistry* 1988, 92, 4726-4730.
426. Baglioni, P.; Dei, L.; Gabrielli, G.; Innocenti, F. M. - Macromolecular conformations at the water-air interface: interactions between alpha and beta conformations of polypeptides. *Colloid and Polymer Science* 1988, 266, 783-792.
427. Baglioni, P.; Kevan, L. - Electron spin resonance and electron spin echo modulation studies of N,N,N',N'-tetramethylbenzidine photoionization in sodium dodecylsulfate micelles: structural effects of alcohol and crown ether addition. *Progress in Colloid & Polymer Science* 1988, 76, 183-187.
428. Dei, L.; Baglioni, P.; Gabrielli, G. - On the Formation Mechanism of Tridimensional Phases from Monolayers at Water-Air Interface. in " Surfactants in Solution" K.L. Mittal and P. Bothorel Eds., Plenum Press, N.Y. 1987, vol. 5 pp. 979-994.
429. Baglioni, P.- Mixed Micelles of SDS and DTAB Studied by ESR of Nitroxide Probes. in "Surfactants in Solution" K.L. Mittal and P. Bothorel Eds., Plenum Press, N.Y. 1987, vol. 4 pp. 393-404.
430. Baglioni, P.; Kevan, L. - Structural effects of alcohol addition to sodium dodecyl sulfate micelles studied by electron spin-echo modulation of 5-doxylstearic acid spin probe. *Journal of Physical Chemistry* 1987, 91, 1516-1518.
431. Baglioni, P.; Carlà, M.; Dei, L.; Martini, E. - Interaction between .alpha.-poly(.gamma.-methyl-L-glutamate) and 5- and 16-doxylstearic acids: a monolayer and ESR study. *Journal of Physical Chemistry* 1987, 91, 1460-1465.
432. Baglioni, P.; Kevan, L. - Electron spin resonance and electron spin echo modulation studies of N,N,N',N'-tetramethylbenzidine photoionization in sodium dodecyl sulfate micelles: structural effects of alcohol addition. *Journal of Physical Chemistry* 1987, 91, 2106-2109.

433. Baglioni, P.; Cocciaro, R.; Dei, L. - Surface properties of carboxylate latex particles. *Journal of Physical Chemistry* 1987, 91, 4020-4023.
434. Carniani, E.; Gabrielli, G.; Baglioni, P.- Coal-water Slurry Oxidation and Rheology - Proc. 10th International Conference of the Hydraulic Transport of Solids in Pipelines. Innsbruck, Austria 29-31 October 1986.
435. Baglioni, P.; Feber Canals, M. A. - *Atlanti scientifici: Chimica*. Giunti Editore 1986.
436. Baglioni, P.; Dei, L.; Ferroni, E.; Gabrielli, G. - Bidimensional mixtures of cholesterol and poly- γ -methyl-L-glutamate in α conformation at the water-air interface: mechanism of collapse. *Journal of Colloid and Interface Science* 1986, 109, 109-114.
437. Baglioni, P.; Dei, L.; Gabrielli, G. - Poly(lauryl methacrylate) in bidimensional mixtures with low and high molecular weight substances: effect of the chain mobility on mutual miscibility. *Colloid and Polymer Science* 1986, 264, 241-247.
438. Baglioni, P.; Ottaviani, M. F.; Martini, G. - Micellar solutions of sulfate surfactants studied by ESR of nitroxide radicals. 3. Effect of added electrolytes. *Journal of Physical Chemistry* 1986, 90, 5878-5882.
439. Ferroni, E.; Baglioni, P.- Experiments about the method for the restoration of sulfated frescos. In "Scientific methodologies applied to works of art", Parrini P.L. (ed.); Milan: Montedison progetto cultura, 1986, 108-109.
440. Bondi, C.; Baglioni, P.; Taddei, G. - Structure of the monolayers of aromatic molecules adsorbed on graphite. *Chemical Physics* 1985, 96, 277-285.
441. Baglioni, P.; Cestelli, G.; Dei, L.; Gabrielli, G. - Monolayers of cholesterol at water-air interface: mechanism of collapse. *Journal of Colloid and Interface Science* 1985, 104, 143-150.
442. Baglioni, P.; Dei, L.; Puggelli, M. - Bidimensional mixtures of poly(methyl methacrylate) with fatty esters at water-air interface. *Colloid and Polymer Science* 1985, 263, 266-271.
443. Baglioni, P.- *Transizioni di Fase*. *Enciclopedia della Chimica* 1984, 10, 387-392, USES editore, Torino.
444. Baglioni, P.- *Introduzione ai sistemi micellari in fase acquosa*. Corso di "Chimica Fisica dei Colloidi e delle Interfasi" CNR e Società Chimica Italiana, Milano, 1984.
445. Baglioni, P.; Ottaviani, M. F.; Martini, G.; Ferroni, E. - ESR study of spin labels in surfactant micelles. in "Surfactants in Solution" K.L. Mittal and B. Lindman Eds., Plenum Press, New York, 1984, vol. 1 pp. 541-557.
446. Baglioni, P.; Ferroni, E.; Martini, G.; Ottaviani, M. F. - Micellar solutions of sulfate surfactants studied by ESR of nitroxide radicals. 2. Use of C8, C12, and C16 derivatives of piperidiny-1-oxy. *Journal of Physical Chemistry* 1984, 88, 5107-5113.
447. Ottaviani, M. F.; Baglioni, P.; Martini, G. - Micellar solutions of sulfate surfactants studied by electron spin resonance of nitroxide radicals. 1. Use of neutral and positively charged spin probes. *Journal of Physical Chemistry* 1983, 87, 3146-3153.
448. Ferroni, E.; Gabrielli, G.; Baglioni, P.- *Parametri termodinamici e reologici nella stabilità di schiume polimeriche*. 1983, *Materiali compositi e schiume polimeriche*, CNR Progetto Finalizzato Chimica Fine e Secondaria, Napoli.

449. Baglioni, P.; Francini, F.; Gabrielli, G.; Longobardi, G. - Electro-optical Device for Surface Tension Measurements. SPIE 1983, 369, 478.
450. Baglioni, P.; Dei, L.; Gabrielli, G. - Bidimensional state conformation of poly(γ -methyl L-glutamate). II. Collapse mechanism of α and β conformations. Journal of Colloid and Interface Science 1983, 93, 402-410.
451. Gabrielli, G.; Puggelli, M.; Baglioni, P. - Orientation and compatibility in monolayers. II. Mixtures of polymers. Journal of Colloid and Interface Science 1982, 86, 485-500.
452. Cardini, G.; Baglioni, P.; Taddei, G. - Virial coefficients of gas monolayers. Chemical Physics Letters 1982, 87, 18-22.
453. Cardini, G.; Baglioni, P.; Taddei, G. - Crystalline structures of condensed films at liquid interfaces. Chemical Physics Letters 1982, 93, 533-537.
454. Baglioni, P.; Gallori, E.; Gabrielli, G.; Ferroni, E. - Bidimensional state conformation of poly(γ -methyl L-glutamate). I. α and β -Conformations and their mixtures with arachidic acid. Journal of Colloid and Interface Science 1982, 88, 221-232.
455. Baglioni, P.; Cardini, G.; Gabrielli, G.; Taddei, G. - Hydrogen-bonded two-dimensional molecular crystals. Journal of Physical Chemistry 1982, 86, 4684-4689.
456. Gabrielli, G.; Baglioni, P.; Maddii, A. - Orientation and compatibility in monolayers. I. Macromolecular compounds and fatty acids. Journal of Colloid and Interface Science 1981, 79, 268-271.
457. Gabrielli, G.; Baglioni, P.; Ferroni, E. - On the mechanism of collapse of monolayers of macromolecular substances: poly(L, D, and DL)alanine. Journal of Colloid and Interface Science 1981, 81, 139-149.
458. Gabrielli, G.; Baglioni, P. - On the mechanism of collapse of monolayers of macromolecular substances: bidimensional mixtures of poly(DL-alanine) with arachidic acid. Journal of Colloid and Interface Science 1981, 83, 221-229.
459. Gabrielli, G.; Baglioni, P.; Fabbrini, A. - Monolayers of poly(L, D, and DL)alanine and their mixtures with arachidic acid. Colloids and Surfaces 1981, 3, 147-157.
460. Gabrielli, G.; Baglioni, P. - Mixed monolayers of poly(dimethylsiloxane) with cellulose acetate. Journal of Colloid and Interface Science 1980, 73, 582-586.
461. Gabrielli, G.; Baglioni, P.; Ferroni, E. - Bi- and tridimensional solutions. III. Bidimensional mixtures. Colloid and Polymer Science 1980, 258, 148-151.
462. Baglioni, P.; Gabrielli, G.; Guarini, G. G. T. - On the mechanism of collapse of monolayers of macromolecular substances. II. Cellulose acetate. Journal of Colloid and Interface Science 1980, 78, 347-355.
463. Gabrielli, G.; Baglioni, P.; Ferroni, E. - Bi- and tri-dimensional solutions. II. Poly(methyl methacrylate). Colloid and Polymer Science 1979, 257, 1207-1211.
464. Gabrielli, G.; Baglioni, P.; Ferroni, E. - Bi- and tridimensional solutions of poly(vinyl acetate). Colloid and Polymer Science 1979, 257, 121-127.

Patents

1. Ferroni, E.; Gabrielli, G.; Baglioni, P.; Ferrini, F.; Carniani, E. - Sospensione acquosa di carbone. Brevetto n. 21885 del 21-5-1981.
2. Ferroni, E.; Gabrielli, G.; Baglioni, P.; Ferrini, F.; Carniani, E. - Sospensione acquosa di carbone. Brevetto n. 20261 del 19-3-1982.
3. Baglioni, P.; Ferroni, E. – Autogenously air-setting mortar. European Patent Application n. 90114709.0 depositata il 31/04/1990.
4. Bottiroli, G.; Croce, A.C.; Baglioni, P.; Monici, M. - Modified Fluorogenic Substrates with Enzyme-Hydrolyzable Quencher Group for Diagnosis and Photodynamic Treatment of Tumors. PCT Int. Appl. WO 9703697 A2 970206, Priority IT95-MI1560950719.
5. Baglioni P.; Ferroni E.; Dei L.; Giorgi R. - Sospensioni stabili di idrossido di calcio. Brevetto Italiano FI 96A000255. 31/10/1996.
6. Matteazzi, P.; Baglioni, P.; Basset, D. - Processo di riciclaggio mediante macinazione di scarti solidi industriali e materiali alla fine del loro ciclo di vita. Brevetto Italiano FI 96A000280. 02/12/1996.
7. Matteazzi, P.; Baglioni, P.; Basset, D. - Process for Recycling, by Milling, Solid Industrial Waste and Materials at the end of their Service Life. European Patent Application 97203735.2, Priority IT96 FI960280.
8. Grassi G.; Chiaramonti D.; Baglioni P. - Apparato a combustione di etanolo o miscele etanolo per cucine, stufe e illuminazione a uso domestico. Brevetto Italiano FI/98/A42 depositato il 24/ 02/ 98.
9. Baglioni Piero, Fratini Emiliano, Ricceri Riccardo, Sarti Giuseppe, Chiaramonti David - Engine fuels consisting of an emulsion comprising mineral and/or natural oils, their preparation and use in internal combustion engine. Brevetto Europeo PCT/EP99/04607 depositato il 02/07/1999.
10. Baglioni P.; Carretti E.; Dei L. - Microemulsioni ed emulsioni di olio in acqua, loro uso per la solubilizzazione di resine polimeriche e impacchi contenenti detti microemulsioni o emulsioni. Brevetto Italiano Fi99A000071 depositato il 02/ 04/ 99
11. Baglioni, P.; Fratini, E.; Ricceri, R.; Sarti, G.; Chiaramonti, D. (Consorzio Interuniversitario per lo Sviluppo dei Sistemi a Grande Interfase, Italy). - Engine fuels consisting of an emulsion comprising mineral and/or natural oils, their preparation and use in internal combustion engine. PCT Int. Appl. WO 2001002516 A1, 20010111, 10 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-EP4607 19990702.
12. Baglioni, P.; Bardi, U.; Bonini, M. - New process for the production of nanostructured solid powders and nanoparticles films by compartmentalised solution thermal spraying (CSTS), (Consorzio Interuniversitario per lo Sviluppo dei Sistemi a Grande Interfase, C.S.G.I, Italy). Eur. Pat. Appl. EP 1134302 A1 20010919, 11 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO. (English). CODEN: EPXXDW APPLICATION: EP 2000-105673 20000317.
13. Baglioni, P.; Dei, L.; Fratoni, L.; Lo Nostro, P.; Moroni, M. - Processo per la preparazione di nano- e micro-particelle di ossidi e idrossidi di metalli di transizione, nano- e micro-particelle così ottenute e loro impiego in campo ceramico, tessile e cartario. Brevetto Italiano depositato il 28/03/02 (FI-2002-A-52).

14. Baglioni, P.; Dei, L.; Giorgi, R.; Schettino, C. V. - Basic Suspensions their Preparation and Use in Processes for Paper Deacidification (Consorzio Interuniversitario per lo Sviluppo dei Sistemi a Grande Interfase, C.S.G.I, Italy). PCT/EP02/00319 January 15, 2002.
15. Baglioni, P.; Dei, L.; Fratoni, L.; Lo Nostro, P.; Moroni, M. - Preparation of nano- and micro-particles of group II and transition metals oxides and hydroxides and their use in the ceramic, textile and paper industries. PCT Int. Appl. (2003), 10 pp. CODEN: PIXXD2 WO 2003082742 A2 20031009 CAN 139:278604 AN 2003:796605
16. Baglioni, P.; Dei, L.; Giorgi, R.; Ninham, B.W. - Process for preparing nano- nad micro-sized particles of inorganic compounds. EP 04101822.7, 29/04/2004.
17. Baglioni, P.; Ambrosi, M.; Dei, L.; Faneschi, M.; Manciola, L.; Santoni, S. – Ceramic products comprising nanoparticles of zirconium hydroxide and/or glass frits. Domanda brevetto n. EP06112439.2 del 09/02/2006.
18. Ambrosi, M.; Baglioni, P.; Bonini, M.; Fratini, E. – Nanoparticelle monodisperse di ossidi ed idrossidi metallici e loro applicazione nei settori tessile, cartario e ceramico. Domanda di brevetto n. FI2006A000313 del 11/12/2006, attestato di brevetto per Invenzione Industriale n. 0001368826.
19. Baglioni, P.; Giorgi, R. – Marchio Nanortestore®. Application n. FI2008C000675, registration n. 0001336131 del 20/05/2008.
20. Baglioni, P.; Hochkoeppler, A.; Stefan, A. – Espressione batterica di un gene artificiale per la produzione di CRM197 e derivati. Domanda di brevetto n. FI2009A000137 del 25/06/2009.
21. Smets, J.; Pintens, A.; Keijzer, O.P.D.T.; Bodet, J-F.; Lebron, A.; Fratini, E.; Vannucci, C.; Ambrosi, M.; Baglioni, P.; Guinebretiere, S.J.; Yan, N.; Liu, H. – Encapsulates. Application number 12/969,817; confirmation number 4959; filing date 16/12/2010.
22. Fernandez Prieto, S.; Smets, J.; Aouad, Y.G.; Wevers, J.; Baglioni, P.; Ambrosi, M.; Vannucci, C. – Particles. Application number 13/186,528; confirmation number 4487; filing date 20/07/2011.
23. Baglioni, P.; Giorgi, R. – Marchio Nanorestore® Paper. Application n. 009935263, registration n. 009935263 del 07/10/2011.

INVITED CONFERENCES 2010-2013

1. Baglioni, P. 245th ACS National Meeting & Exposition, New Orleans, LA (USA), 07-11/04/2013. “Self assembled systems for the conservation of cultural heritage”. Invited lecture.
2. Baglioni, P. 17th Swedish Neutron Scattering Society Meeting, Uppsala University (Svezia), 13-14/05/2013. “Curating cultural heritage”. Open lecture.
3. Baglioni, P. 1st International Conference on Innovation in Art Research and Technology, Evora (Portogallo), 10-13/07/2013. “Nanoscience for the conservation of cultural heritage”. Invited lecture.
4. Baglioni, P. 26th Conference of the European Colloid and Interface Society – ECIS, Malmö, Sweden. “Magnetic effects on DNA-mediated nanoparticles clusterisation”. Invited lecture.
5. Baglioni, P. 27th Conference of European Colloid and Interface Society, Sofia (Bulgaria), 01-06/09/2013. “Monitoring the interaction of nucleolipoplexes with model membranes”. Invited lecture.
6. Baglioni, P. Ancient Mexican Codices: Scientific and Historical Perspectives, Roma, Accademia Nazionale dei Lincei, 04/06/2013. “Maya mural paintings technique”. Invited lecture.
7. Baglioni, P. Colloids and Nanomedicine 2012, Amsterdam, The Netherlands, 15-17/07/2012. “Magnetic effects on DNA-mediated nanoparticles clusterisation”. Invited lecture.
8. Baglioni, P. Conference on Science and Technology for the Conservation of Cultural Heritage, Santiago de Compostela (Spain), 01-05/10/2012. “New products and materials for conservation and maintenance of cultural heritage”. Invited lecture.

9. Baglioni, P. Design and industrial development of advanced drug delivery systems, University of Pavia, 21-23/11/2013. "Smart lipids assemblies for programmable nanomaterials: structure at the nanoscale and interaction with membrane models". Invited lecture.
10. Baglioni, P. E-MRS 2012 Spring Meeting, Strasbourg, France, 15/05/2012. "Magnetic effects on DNA-mediated nanoparticles clusterisation". Invited lecture.
11. Baglioni, P. Gordon Research Conferences-Adhesion, Science of-Interfacial Chemistry and Mechanics in Hard and Soft Material Systems, Mount Holyoke College, MA (USA), 14-19/07/2013. "Self assembled systems and gels for the conservation of cultural heritage". Invited lecture.
12. Baglioni, P. Joint Seminar on Atomic and Colloidal Sciences, Oak Ridge National Laboratory (USA), 25-26/02/2013. "Cement hydration and nanostructure". Invited lecture.
13. Baglioni, P. Meeting of the Italian Neutron Society, Firenze, 31/06/2012. "Neutrons and Cultural Heritage: Nanoparticles, Microemulsions, Gels and Responsive Gels. Invited lecture.
14. Baglioni, P. Nanotech Italy 2012, Venezia, 21-23/11/2012. "Nanoscience for cultural heritage conservation". Invited lecture.
15. Baglioni, P. Nanotecnología aplicada a bienes culturales, El Instituto Nacional de Antropología e Historia a través de la Escuela Nacional de Conservación, Restauración y Museografía y Museo Nacional de Antropología, Mexico City (Messico), 07/02/2013. "Pintura mural". Invited lecture.
16. Baglioni, P. Nanotecnología para la limpieza de bienes culturales, Escuela de Conservación y Restauración de Occidente y El Instituto Nacional de Antropología e Historia a través del Museo Nacional de Antropología, Guadalajara, Jalisco (Messico), 08/02/2013. "La nanotecnología aplicada a la Conservación de Pintura Mural y Monumentos". Invited lecture.
17. Baglioni, P. National Palace Museum, Taipei (Taiwan), 30/11/2012. "Nanomaterials for the conservation and preservation of movable and immovable artworks". Invited lecture.
18. Baglioni, P. NIST Center for Neutron Research, Gaithersburg, MD (USA), 21/02/2013. "Self assembled systems and gels for the conservation of cultural heritage". Invited lecture.
19. Baglioni, P. Protection of cultural heritage objects with multifunctional advanced materials, Perugia, 08-09/05/2013. "Nano structured materials for the consolidation of artworks". Plenary lecture.
20. Baglioni, P. Science and Innovation for the Study and Conservation of Works of Art, Auditorium of US National Academy of Sciences, Washington, DC (USA) with Accademia Nazionale dei Lincei, 07-10/10/2013. "Nanosciences for cultural heritage conservation". Invited lecture.
21. Baglioni, P. Training School "Colloids and Medical Applications", Sofia (Bulgaria), 31/08-01/09/2013. "Magneto-responsive nanocomposites: preparation and integration of magnetic nanoparticles into films, capsules and gels". Invited lecture.
22. Baglioni, P. Training School "Colloids and Medical Applications", Sofia (Bulgaria), 31/08-01/09/2013. "Nanostructures for magnetically triggered release of drugs and biomolecules". Invited lecture.
23. Baglioni, P. Universidad Autónoma de San Luis Potosí, Mexico, 20/03/2012. "Microemulsions and Micellar Solutions for the Conservation of Cultural Heritage". Invited lecture open to public for Cátedra de Investigación Científica del Instituto de Física 2012.
24. Baglioni, P. Universidad Autónoma de San Luis Potosí, Mexico, 21/03/2012. "Hybrid-Lipid-DNA Self Assemblies". Invited lecture open to public for Cátedra de Investigación Científica del Instituto de Física 2012.
25. Baglioni, P. Universidad Autónoma de San Luis Potosí, Mexico, 22/03/2012. "Cement: a two thousand year old nano-colloid". Invited lecture open to public for Cátedra de Investigación Científica del Instituto de Física 2012.
26. Baglioni, P. Workshop on Structure and Dynamics of Water in Gas, Liquid and Solid Phases, Institute of Atomic and Molecular Sciences, Academia Sinica in Taipei (Taiwan), 28-30/11/2012. "Cement hydration and nanostructure". Invited lecture.
27. Baglioni, P. Workshop, Supranano: Self-Assemblies, Paris (Francia), 06-07/06/2013. "Micelles, microemulsions and gels for conservation and maintenance of cultural heritage". Invited lecture.
28. Baglioni, P. Workshop: El Conocimiento de las nanopartículas en la conservación de bienes culturales, Madrid (España), 30/09/2013. "Nanotechnology applied to Heritage: NanoForArt EU Project". Invited lecture.
29. International Year of Chemistry 2011, Italian Embassy and WOAM, Washington DC, 04/04/2011. "Chemistry for the Conservation of Cultural Heritage: Preserving our Past for a Better Future". Public lecture.
30. World Bank, Washington DC, Sustainability of Historic City Management and Cultural Heritage Conservation, 03/11/2011. "Nanotools for Conservation of Cultural Heritage. Public Lecture.
31. Smithsonian, Museum Conservation Institute (MCI), Nanoparticles and Nanocontainer for Restoration and Conservation of Cultural Heritage 02/11/2011. Prestigious lecture.

32. International Year of Chemistry 2011, Institut de Science et d'Ingénierie Supramoléculaires, Université de Strasbourg, 02/05/2011. "Chemistry for the Conservation of Cultural Heritage: Preserving our Past for a Better Future". Public lecture.
33. International Year of Chemistry 2011, Lafayette College, Pennsylvania (USA), 29/03/2011. "Chemistry for the Conservation of Cultural Heritage: Preserving our Past for a Better Future". Public Lecture.
34. International Year of Chemistry 2011, Lund University, 03/02/2011. "Chemistry for the Conservation of Cultural Heritage: Preserving our Past for a Better Future". Public Lecture.
35. 3rd EuCheMS Chemistry Congress 2010, Chemistry – The Creative Force, Nuernberg (Germany), 29/08-02/09/2010. "Soft and hard nanoparticles for restoration and conservation of Cultural Heritage". Invited lecture.
36. 7th Lipidomics Congress: Lipids in all states, Anglet – Biarritz (France), 03-06/10/2010. "Hybrid Lipid-DNA Self-Assemblies". Invited lecture.
37. ACS 239th National Meeting, San Francisco (USA), 21-25/03/2010. "Conservation of cultural heritage: there is plenty of room for colloids science". Invited lecture.
38. International School of Molecular and Structural Archaeology, 3rd Course: Non-invasive analysis of painting materials, Erice (TP), 14-21/06/2010. "New frontiers in material science for art conservation. Responsive gels and beyond". Plenary.
39. International Workshop 14th Annual Meeting Swedish Neutron Scattering Society and Bio-Interfaces: from molecular understanding to application, Lund (Svezia), 24-27/08/2010. "Hybrid Lipid/DNA Self-Assemblies". Plenary.
40. Recent Advances on Supramolecular Systems Involving Biological Molecules and/or Bioinspired Compounds, Centre de Recherches Paul Pascal, Pessac (France), 14-15/10/2010. "Lipid membranes functionalized with nucleobases". Invited lecture.
41. Seminar on Nanotechnology for art Conservation, Northwestern University (MRSEC), 28/10/2010. "New Methodologies for the Conservation of Cultural Heritage: Micellar Solutions, Microemulsions and Hydroxide Nanoparticles". Plenary.
42. Seminar series in Conservation Science: Nanotechnology for research and art conservation, Northwestern University, Chicago (USA), 27/10/2010. "Nanogels for cleaning and consolidation". Plenary
43. Baglioni, P. Workshop "Manipulation of DNA with cosolutes" Kumarakom, Kerala (India), 13-16/01/2010. "Lipid membranes functionalized with DNA". Invited Lecture.