CV of Teresa Pellegrino

Born January 26th 1975, Italian Citizen, married, 2 kids

Research interests

Preparation, characterization and biomedical applications of nanostructured materials made of entirely inorganic materials or organic-inorganic materials in which various components, having different properties (such as optical, chemical, and magnetic, stimuli responsive) are properly tailored and combined into single nano-objects.

Professional Preparation

Ph.D. in Chemistry, University of Bari, Italy, 2005
M.S. in Chemistry (110/110), University of Bari, Italy, 2000

Appointments

February 2010-current:	Staff scientist of the Nanoscience Institute of CNR at the National Nanotechnology Lab in Lecce (Italy)
March 2009-current:	External Team leader at the Nanochemistry Facility at the Italian Institute of Technology in Genova (Italy)
2004-2009:	Junior Scientist at the National Nanotechnology Lab in Lecce (Italy)
2003-2004:	Marie Curie Fellowship at the Center for Nanoscience, Munich (Germany)
2001-2003:	Visiting Student, University of California, Berkeley

Major Research Grants Secured

2011-2013: **scientific PI for CNR partner** of an AIRC project entitled "miRNA profile associated to clinical response in ovary cancer: biological/clinical implications" - cod. 10302., P.I.: Silvana Canevari, Istituto Nazionale dei Tumori, Milan (Italy)

2009-2013: European project FP7 SMALL, **project coordinator** (Magnetic Nanocontainers for Combined Hyperthermia and Controlled Drug Release MAGNIFYCO, contract n. 228622, www.magnifyco.eu, magnetic nanocontainers for combined hyperthermia and controlled drug release)

2005-2006: **PI as external partner for CNR** of an Italian National Research Program on "New types of contrast agents for magnetic resonance imaging and tissue targeting: brain damage in animal model" funded by the Italian Ministry of University and Research.

2006-2009: Within the network project of the IIT (Italian Institute of Technology), research unit of Lecce, National Nanotechnology Laboratory of CNR-INFM, **Principal investigator** of the Work- package 4 entitled " Functionalized nanoparticles for cancer therapy".

Awards and research highlights

- In January 2013, she received the award named "Apulia Women Talent 2012" assigned by Lions International Club (section 109) for the work carried out on the topic "Magnetic Nanocontainers for Combined Hyperthermia and Controlled Drug Release".

- In February 2012, she was highlighted by Chemical Communications as among the top emerging investigators 2012. Her invited research article was published in the first ChemComm issue of 2012, along with her biography profile(ESI) see: http://pubs.rsc.org/en/content/articlelanding/2012/cc/c2cc17223b

- As of December 2011, Teresa Pellegrino review ("From iron oxide nanoparticles towards advanced iron-based inorganic materials designed for biomedical applications", August 2010) is among the most downloaded articles in Pharmacological Research. See: http://www.journals.elsevier.com/pharmacological-research/most-cited-articles/

- In October 2009, the manuscript Pellegrino t et al., Nano Lett. 2004, 4 (4), 703, was selected as the "Emerging Research Front Paper in the field of Materials Science" issue by the ScienceWatch (Thomson Reuters)

- On July 7th, 2009 she received from the Italian Chemical Society the Internationational Award "Primo Levi" for young investigators (below 35), for the work: "Multifuctional Nanostructures Based on Inorganic Nanoparticles and Oligothiophenes and their Exploitation for Cellular Studies" A. Quarta, R. Di Corato, L. Manna, S. Argentiere, R Cingolani, G. Barbarella and T. Pellegrino, (Journal of the American Chemical Society, 2008,130, 10545-10555). The same work has been selected for the special JACS issue: "Chemistry at Nano-Bio Interface" published in July 2009.

Tutoring and Experience
So far she has coordinated the activity of 4 PhD students, 5 post doc and 5 undergraduate students.

Referee for several International Journals
JACS, Advanced Materials, Advanced Functional Materials, Nature Materials, Nature Nanotechnology, Nano Letters, Angewandte Chemie, Small, Langmuir, Journal of Materials Chemistry

Organization of conference/symposia

-May 9-13 2011: organizer of the Symposium "Bionanomaterials for imaging, sensing and actuating"at EU conference European-Material Research Science in Strasbourg, France http://www.emrs-strasbourg.com/index.php?option=com_content&task=view&Itemid=134&id=392
-March 28-30 2011:organizer of the MAGNIFYCO Workshop on "Magnetic Nanocontainers for Combined Hyperthermia and Controlled Drug Release" at the Nanochemistry Department of Italian Institute of Technology, in the framework of the midterm meeting of the European Project MAGNIFYCO, http://www.magnifyco.eu/files/MAGNIFYCO_29March2011.pdf
-Spring MRS meeting 2013organizer of the Symposium SPRING 13 Q: Bionanomaterials for imaging, sensing and actuating
http://www.emrstrasbourg.com/index.php?option=com_content&task=view&Itemid=1583&id=587&PHPSESSID=5b93cfb98fca60b3834b4602e31f9ef9
February 20-22 2013: Organizer of the final International workshop of Magnifyco project, Barcelona (http://www.magnifyco.eu/magnifyco-2013-workshop)

Invited Seminars/Lectures/Colloquia, conference presentations and teaching Expertise: 24 conference presentations (18 invited talks), 15 invited seminars/colloquia, 4 invited international summer schools. Classes taught: Fall semester 2006 'General Chemistry' and Spring semester 2007 'Organic Chemistry' (Scuola Superiore Isufi, University of Lecce)

Publications and conference presentations: In these years she was invited to write review articles for several journals (among them Chemical Society Reviews, IEEE Transaction of Nanobioscience, Pharmacological Research, Nanoscale) and to write book chapters (4 so far plus one submitted). So far, she has in total 54 papers in international journals (5 invited reviews, 5 as a first authors and 20 out of 54 as corresponding author) and 3 issued patents.

Other scientific related activities: In May 2008, within the events "Nano-Tech Design dispositivi periferici" hold in Lecce (Italy) at Manifatture knos exposition center, she has given a general presentation on the topic: "Art and Science: TEM images, Colours and Design" and she has organized an exposition of artistically modified TEM images. In 2009, she was coordinating the production of the annual calendar 2009 of the Institute National Nanotechnology Laboratory of CNR, by using modified TEM and SEM pictures.

Papers in peer-reviewed journals:

2013

1. *"Colloidal Ordered Assemblies in a Polymer ShellA Novel Type of Magnetic Nanobeads for Theranostic Applications"* N. C Bigall , C. Wilhelm , M. Beoutis , M. Garcia-Hernandez , A. Ali Khan , C.

Giannini , A. Sanchez-Ferrer , R. Mezzenga , M. E. Materia , M. Angel Garcia , F. Gazeau , A. M Bittner , L. Manna , and **T. Pellegrino** *(**Chemistry of Materials**, in press 2013,* **DOI:** 10.1021/cm3036746)

2. *"Magnetic properties of iron oxide nanoparticles prepared 3 by seeded-growth route"* A. Espinosa, A. Munoz-Noval, M. Garcıa-Hernandez, A. Serrano, J. Jimenez de la Morena, A. Figuerola, A. Quarta, **T. Pellegrino**, C. Wilhelm, M. A. Garcıa, (**Journal of Nanoparticle Research**, *in press 2013,* **DOI:10.1007/s11051-013-1514-8)**

2012

3. *"Superparamagnetic cellulose fiber networks via nanocomposite functionalization*" D. Fragouli, IS. Bayer, R. Di Corato, R. Brescia, G. Bertoni, C. Innocenti, D. Gatteschi, **T. Pellegrino**, R. Cingolani, A. Athanassiou, *(***Journal Of Materials Chemistry***, 22 (4), 1662-1666* **DOI:** 10.1039/c1jm14755b*, 2012)*
4. *"Magnetic pH-responsive nanogels as multifunctional delivery tools for small interfering RNA (siRNA) molecules and iron oxide nanoparticles (IONPs)" A.* Curcio, R. Marotta, A. Riedinger, D. Palumberi, A. Falqui, **T. Pellegrino**, *(**Chemical Communications**, 48 (18), 2400-2402* **DOI:** 10.1039/c2cc17223b*, 2012)*
5. *"On the discrimination between magnetite and maghemite by XANES measurements in fluorescence mode"*, A Espinosa, A. Serrano, A. Llavona, JJ. de la Morena, M. Abuin, A. Figuerola, **T. Pellegrino**, JF. Fernandez, M. Garcia-Hernandez, GR. Castro, MA. Garcia, *(**Measurement Science & Technology**, 23 (1),* **DOI:** 10.1088/0957-0233/23/1/015602 *, 2012)*
6. *"Water-Soluble Iron Oxide Nanocubes with High Values of Specific Absorption Rate for Cancer Cell Hyperthermia Treatment"* P. Guardia, R. Di Corato, L. Lartigue, C. Wilhelm, A. Espinosa, M. Garcia-Hernandez, F. Gazeau, L. Manna, and **T. Pellegrino** *(**ACS Nano**, 6 (4), 3080-3091* **DOI:** 10.1021/nn2048137*, 2012)*
7. *"Polymer coated inorganic nanoparticles: tailoring the nanocrystal surface for designing nanoprobes with biological implications"* A. Quarta, A. Curcio, H. Kakwere and **T. Pellegrino** *(**Nanoscale**,4(11), 3319-3334, feature article,* **DOI:** 10.1039/C2NR30271C*, 2012)*
8. *"Magnetophoresis at the nanoscale: tracking magnetic targeting efficiency of nanovectors"* A. Andriola Silva, R. Di Corato, F. Gazeau, **T. Pellegrino** and C. Wilhelm *(**Nanomedicine**, 7(11), 1713-1727* **DOI:***, 2012)*
9. *"'Magnetic nanobeads decorated with silver nanoparticles as cytotoxic agents and photothermal probes"* R. Di Corato, D. Palumberi, R. Marotta, M. Scotto, S. Carregal-Romero, P. Rivera-Gil, W. J Parak and **T. Pellegrino** *(**Small**, 8 (17) 2731-2742* **DOI:** 10.1002/smll.201200230*, 2012)*
10. *"Controlled Release of Doxorubicin Loaded within Magnetic Thermo-responsive Nanocarriers under Magnetic and Thermal Actuation in a Microfluidic Channel", M. Pernia, A. Torti, A. Riedinger, R. La Fleur, D. Petti,R. Cingolani, R. Bertacco,* **T. Pellegrino** *(**Acs Nano**, 6(12), 10535, 2012, **DOI**: 10.1021/nn3028425)*

2011

11. *"Water-repellent Cellulose Fiber Networks with Multifunctional Properties*" I. Bayer, D. Fragouli, A.Attanasio, B. Sorce, G. Bertoni, R. Brescia, R. Di Corato, **T. Pellegrino**, M. Kalyva, S. Sabella, P. P. Pompa, R. Cingolani and A. Athanassiou *(***Applied Materials and Interfaces***,* 2011, 3(10), 4024 doi. 10.1021/am200891f, 2011*)*
12. *"Magnetic Nanocarriers with Tunable pH Dependency for Controlled Loading and Release of Cationic and Anionic Payloads"* Nadja C. Bigall, A. Curcio, M. Pernia Leal, A. Falqui, D. Palumberi, R. Di Corato,

E. Albanesi, R. Cingolani and **T. Pellegrino** *(***Advanced Materials***, 2011, 23(47), 5645 doi.* adma.201103505 *2011)*

13. *"Multiple functionalization of fluorescent nanoparticles for specific biolabeling and drug delivery of dopamine"* M. A. Malvindi, R. Di Corato, A. Curcio, D. Melisi, M. G. Rimoli,C. Tortiglione, A. Tino, C. George, V. Brunetti, R. Cingolani, **T. Pellegrino** and A. Ragusa (**Nanoscale,** 2011 *3(12), 5110, doi*: 10.1039/c1nr10797f)
14. *"Magnetic nanobeads decorated by thermo-responsive PNIPAM shell as medical platforms for the efficient delivery of doxorubicin to tumour cells"* S. R. Deka, A. Quarta, R. Di Corato, A. Riedinger, R. Cingolani and **T. Pellegrino** *(**Nanoscale**, 3 (2), 619 - 629, 2011)*
15. *"Multifunctional Nanobeads Based on Quantum Dots and Magnetic Nanoparticles – Synthesis and Cancer Cell Targeting and Sorting"* R. Di Corato, N. Bigall, A. Ragusa, D. Dorf, A. Genovese, R. Marotta, L. Manna, and **T. Pellegrino** *(**ACS Nano**, 5 (2) 1109-1121, 2011)*
16. *"A Cast-Mold Approach to Iron Oxide and Pt/Iron Oxide Nanocontainers and Nanoparticles with a Reactive Concave Surface"* C. George, D. Dorfs, G. Bertoni, A. Falqui, A. Genovese, **T. Pellegrino**, A. Roig, A. Quarta, R. Comparelli, M. L. Curri, R. Cingolani, and L. Manna *(**Journal of the American Chemical Society**, 133 (7), pp 2205–2217, 2011)*
17. *"CdSe/CdS Semiconductor Quantum Rods as Robust Fluorescent Probes for Paraffin-Embedded Tissue Imaging"* A. Zacheo, A. Quarta, A. Mangoni, P. P. Pompa, R. Mastria, M. Capogrossi, R. Rinaldi and **T. Pellegrino** *(**Transaction on NanoBioscience**, 10 (3), pp. 209-215, 2011)*
18. *"Correlating Magneto-Structural Properties to Hyperthermia Performance of Highly Monodisperse Iron Oxide Nanoparticles Prepared by a Seeded-Growth Route"* M. Levy, A. Quarta, A. Espinosa, A. Figuerola, C. Wilhelm, M. Garcia-Hernandez, A. Genovese, A. Falqui, D. Alloyeau, R. Buonsanti, P. D. Cozzoli, M. A. Garcia, F. Gazeau and **T. Pellegrino** *(**Chemistry of Materials**, 23 (18), 4170–4180, 2011)*
19. *"Charge Transport and Electrochemical Properties of Colloidal Greigite (Fe3S4) Nanoplatelets"* A. Paolella, C. George, M. Povia, Y. Zhang, R. Krahne, M. Gich, A. Genovese, A. Falqui, M. Longobardi, P. Guardia, **T. Pellegrino** and L. Manna *(**Chemistry of Materials**, 23 (16), 3762–3768, 2011)*
20. *"Nanohybrids" Based on pH-Responsive Hydrogels and Inorganic Nanoparticles for Drug Delivery and Sensor Applications*" A. Riedinger, M. Pernia Leal, S. R. Deka, C. George, I. R. Franchini, A. Falqui, R. Cingolani, **T. Pellegrino** *(**Nano Letters**, 11, 3136–3141, 2011)*
21. *"Rod-shaped nanostructures based on super-paramagnetic nanocrystals as viscosity sensors in liquid* " M. Allione, B. Torre, A. Casu, A. Faalqui, P. Piacenza, R. Di Corato, **T. Pellegrino** and A. Diaspro *(**Journal of Applied Physics**, 110 (6), pp. 064907-1/064907-6)*
22. *""Magnetic/Silica nanocomposites as dual-mode contrast agents for combined Magnetic Resonance Imaging and UltraSonography"*M. A. Malvindi, A. Greco, F. Conversano, A. Figuerola, M. Corti, M. Bonora, A. Lascialfari, H. A. Doumari, M. Moscardini, R. Cingolani, G. Gigli, S. Casciaro, **T. Pellegrino**, and A. Ragusa *(**Advanced Functional Materials**, 21 (13), 2548-2555, 2011)*

2010

23. *"From Iron Oxide Nanoparticles Towards Advanced Iron-Based Inorganic Materials Designed For Biomedical Applications"* A.S. Figuerola, R. Di Corato, L.Manna and **T. Pellegrino** *(***Pharmacological Research***, 62, 126-143, 2010)*
24. "*Acidic pH-responsive nanogel as cargo system for the simultaneously loading and release of short oligonucleotide and magnetic nanoparticles"* S. Deka, A. Quarta, R. Di Corato, A. Falqui, L. Manna, R. Cingolani and **T. Pellegrino**, (**Langmuir**, 26 (12), 10315-10324, 2010)

25. *"Silica nanoparticles for quantitative ultrasound molecular imaging and automatic tissue typing at conventional diagnostic frequencies"* S. Casciaro, F. Conversano, A. Ragusa, M. A. Malvindi,R. Franchini, A. Greco, **T. Pellegrino**, G. Gigli. (**Investigative Radiology**, 45(11), 715-724, 2010)

2009

26. *"An ab initio study of the CoPt3-Au interface: implications on the growth of colloidal CoPt3-Au nanocrystal heterodimers"* L. Chiodo, F. Della Sala, **T. Pellegrino**, R. Cingolani, L. Manna (**Journal of Physics: Condensed Matter,** 2009, 21, 1-13, (http://www.iop.org/EJ/abstract/0953-8984/21/1/015001/)
27. *'CdSe/CdS/ZnS double shell nanorods with high photoluminescence efficiency and their exploitation as bio-labeling probes',* S. Deka, A. Quarta, M. G. Lupo, A. Falqui, S. Boninelli, C. Giannini, G. Morello, M. De Giorgi, G. Lanzani, C. Spinella, R. Cingolani, **T. Pellegrino** and L. Manna, (**Journal of the American Chemical Society**), 2009, 131 (8), 2948–2958.
28. *'Magnetic-Fluorescent Colloidal Nano-Beads: Preparation and Exploitation in Cell Separation Experiments'*, R. Di Corato, P. Piacenza, M. Musarò, R. Buonsanti, P. D. Cozzoli, M. Zambianchi, G. Barbarella, R. Cingolani, L. Manna and **T. Pellegrino**, (**Macromolecular Bioscience**, 2009, 9, 952–958).
29. *"Fluorescent Nanocrystals Reveal Regulated Portals of Entry into and Between the cells of Hydra* C. Tortiglione, A. Quarta, M. A. Malvindi, A. Tino, **T. Pellegrino**, (**Plos One**, 2009, 4 (issue 11), e7698, 1-14)
30. *"A nanoelectrode-based biosensor for the detection of single biorecognition events"* G. Maruccio, E. Primiceri, P. Marzo, V. Arima, **T. Pellegrino**, R. Krahne, A. Della Torre, R. Cingolani and R. Rinaldi, (**Analyst,** 2009, 134, 2458-2461)
31. *"Copper-triggered aggregation of ubiquitin"* F. Arnesano, S. Scintilla, V. Calò, E. Bonfrate, C. Ingrosso, M. Losacco, **T. Pellegrino**, E. Rizzarelli, G. Natile, (**Plos One**, 2009, 4 (issue 9), e7052, 1-11)
32. *"A Bio-conjugation of rod-shaped fluorescent nanocrystals for efficient targeted cell labelling"* A.Quarta, A. Ragusa, S. Deka, C. Tortiglione, A. Tino, R. Cingolani and **T. Pellegrino**, (**Langmuir**, 2009, 25 (21), 12614-12622, DOI: 10.1021/la901831y**)**

2008

33. *"Rod Shaped Nanocrystals Elicit Neuronal Activity In Vivo "* M. A. Malvindi, L. Carbone, A. Quarta, A. Tino, L. Manna, **T. Pellegrino** , C. Tortiglione, (**Small,** 2008, 4(10), 1747–1755)
34. *"Multifuctional Nanostructures Based on Inorganic Nanoparticles and Oligothiophenes and their Exploitation for Cellular Studies"* A. Quarta, R. Di Corato, L. Manna, S. Argentiere, R Cingolani, G. Barbarella and **T. Pellegrino,** (**Journal of the American Chemical Society,** 2008,130,10545-10555)
35. *"Water solubilization of hydrophobic nanocrystals by means of poly(maleic anhydride-alt-1-octadecene)"* R. Di Corato, A. Quarta, P. Piacenza, A. Ragusa, A. Figuerola, R. Buonsanti, R. Cingolani, L. Manna and **T. Pellegrino** (**Journal of Materials Chemistry** 2008, 18, 1991-1996)
36. *"One-pot Synthesis and Characterization of Size-Controlled Bimagnetic FePt-Iron Oxide Heterodimer Nanocrystals"* Figuerola, A.; Fiore, A.; Di Corato, R.; Falqui, A.; Giannini, C.; Micotti, E.; Lascialfari, A.; Corti, M.; Cingolani, R.; **Pellegrino, T**.; Cozzoli, P. D.; Manna, L. (**Journal of the American Chemical Society** 2008, 130, 1477-1487)

37. *"Magnetic properties of novel superparamagnetic MRI contrast agents based on colloidal nanocrystals"* M. Corti, A. Lascialfari, E. Micotti, A. Castellano, M. Donativi, A. Quarta, P. D. Cozzoli, L. Manna, **T. Pellegrino**, C. Sangregorio (**Journal of Magnetism and Magnetic Materials** 2008, 18, 1991-1996))

2007

38. *"Fluorescent-magnetic hybrid nanostructures: preparation, properties and applications in biology"* A Quarta, R. Di Corato, L. Manna, A. Ragusa and **T. Pellegrino**,(**Transaction on NanoBioscience**, 2007, 6, 298-308) topical review
39. *"Synthesis and biological assay of GSH functionalised fluorescent Quantum Dots for staining Hydra vulgaris"* C. Tortiglione, A. Quarta, A. Tino, L. Manna, R. Cingolani and **T. Pellegrino** (**Bioconjugate Chemistry**, 18, 829-835, 2007)
40. *"Gel Electrophoresis of Gold-DNA Nano-Conjugates"* by W. J. Parak, **T. Pellegrino**, Ralph A. Sperling, and A. P. Alivisatos, (**Journal of Biomedicine and Biotechnology** 2008, Volume 2007, Article ID 26796, 9 pages, doi:10.1155/2007/26796)

2006

41. *"Synthesis, properties and perspectives of hybrid nanocrystal structures"* Pantaleo Davide Cozzoli, **Teresa Pellegrino** and Liberato Manna (**Chemical Society Review**, 35: 1195-1208 September 11, 2006)
42. *"Heterodimers based on CoPt3-Au nanocrystals with tunable domain size"* **Teresa Pellegrino,** Angela Fiore, Elvio Carlino, Cinzia Giannini, P. Davide Cozzoli, Giuseppe Ciccarella, Marc Respaud, Luca Palmirotta, Roberto Cingolani, and Liberato Manna (**Journal Of The American Chemical Society** 128 (20): 6690-6698 MAY 24 2006)
43. *"Electrophoretic Separation of Nanoparticles with a Discrete Number of Functional Groups"* Ralph A. Sperling, **Teresa Pellegrino**, Jimmy K. Li, Walter H. Chang and Wolfgang J. Parak *(***Advanced Functional Materials** *16 (7): 943-948 MAY 2 2006)*
44. *"Fluorescence resonance energy transfer induced by conjugation of metalloproteins to nanoparticles"* Pompa PP, Chiuri R, Manna L, **Pellegrino T**, del Mercato LL, Parak WJ, Calabi F, Cingolani R, Rinaldi R (**Chemical Physics Letters** 417 (4-6): 351-357 JAN 10 2006)

2005

45. *"On the Development of Colloidal Nanoparticles towards Multifunctional Structures and their Possible Use for Biological Applications"* **Teresa Pellegrino**, Stefan Kudera, Tim Liedl, Almudena Munoz Javier, Liberato Manna, and Wolfgang J. Parak (**Small** 1(1): 8-63, 2005).
46. *"Labeling of Cells with Quantum Dots"* Wolfgang J. Parak, **Teresa Pellegrino**, Christian Plank (**Nanotechnology** 16: r9-r25, 2005 invited paper) topical review.
47. *"Quantum Dot-Based Cell Motility Assay In Comparison to the Boyden Chamber Invasion Assay"* Weiwei Gu, **Teresa Pellegrino**, Wolfgang J. Parak, Rosanne Boudreau, Mark A. Le Gros, Daniele Gerion, A. Paul Alivisatos, and Carolyn A. Larabell (**Science's STKE**, 290/PI5:1-6, 2005 on-line publication)
48. *"Biological Applications of Fluorescent Quantum Dots"* Tim Liedl, **Teresa Pellegrino** and Wolfgang J. Parak (**New Drugs**: 14-16, 2005)

49. *"Cytotoxicity of colloidal CdSe and CdSe/ZnS nanoparticles"* Christian Kirchner Tim Liedl, Stefan Kudera, **Teresa Pellegrino,** Almudena Munoz Javier, Hermann E. Gaub, Sonja Stoelzle, N. Fertig, Wolfgang J. Parak (**Nano Letters** 5 (2): 331-338, 2005).

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50. *"Hydrophobic nanocrystals coated with an amphiphilic polymer shell: a general route to water soluble nanocrystals"*, **Teresa Pellegrino,** Liberato Manna, Stefan Kudera, Dmitry Koktysh, Andrey L. Rogach, Giovanni Natile and Wolfgang J. Parak **(Nano Letters** 4 (4): 703-707, 2004).
51. *'Selective Transition Metal Extraction by Reverse Micelles'*, Maurizio Caselli, Annarosa Mangone, **Teresa Pellegrino** and Angela Traini, (**Annali di Chimica** 95 (1-2): 33-43, 2004).
52. *"Surface modification and bioconjugation of colloidal nanocrystals to form building blocks with molecular recognition"* R. A. Sperling, **T. Pellegrino**, S. Kudera, A Munoz Javier, L. Manna and W. J. Parak. Proceedings for the 2004 4th IEEE Conference on Nanotechnology (223-224)

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53. *'Quantum Dot Based Cell Motility Assay'*, **Teresa Pellegrino,** Wolfgang J. Parak, Rosanne Boudreau, Mark A. Le Gross, A. Paul Alivisatos and Carolyn A. Larabell, (**Differentiation** 71 (9-10): 542-548, 2003).
54. **'***Biological Applications of Colloidal Nanocrystals'* W. J. Parak, D. Gerion, **T. Pellegrino,** D. Zanchet, C. M. Micheel, S. Williams, R. Boudreau, M. Le Gros, C. Larabell & P. Alivisatos, (**Nanotechnology** 14 (7): r15-r27, 2003).
55. *'Conformation of oligonucleotides attached to gold nanocrystals probed by gel-electrophoresis'*, W. J. Parak, **T. Pellegrino,** C. M. Micheel, D. Gerion, S. Williams & P. Alivisatos, (**Nano Letters** 3(1): 33-36, 2003).

2002

56. *'Conjugation of DNA to silanized colloidal semiconductor nanocrystallinene quantum dots'*, W. J. Parak, D. Gerion, D. Zanchet, A. Woerz, **T. Pellegrino,** C. M. Micheel, , S. Williams, M. Seitz, R. Bruehel, Z. Bryant, C. Bustamante, C. Bertozzi & P. Alivisatos, (**Chemistry of Materials** 14: 2113-2119, 2002).

Book Chapters

"Measuring Cell Motility Using Quantum Dot Probes" Weiwei Gu; **Teresa Pellegrino**; Wolfgang J. Parak; Rosanne Boudreau; Mark A. Le Gros; A. Paul Alivisatos; Carolyn A. Larabell, (Quantum Dots, Applications in Biology, 2007 (Clifton, NJ), Chapter 11, pp. 125 - 132) .

'Fluorescent Nanocrystals and Proteins in Nanobioelectronics - for Electronics, Biology and Medicine', P. P. Pompa, **T. Pellegrino** and L. Manna,ed. by Andreas Offenhäusser and Ross Rinaldi, Springer 2009.

'Quantum dot Nanoparticles: Properties, Surface Functionalization, and their applications in biosensoring and imaging', in 'Nanostructured Materials for Biomedical Applications', Ragusa, A. Zacheo, **T. Pellegrino** and L. Manna, Edited by M. C. Tan, Transworld Research Network, Kerala, India, 2010.

"Quantum Dots Designed For Biomedical Applications" A. Ragusa, A. Zacheo, A. Aloisi, and **T. Pellegrino**, Chapter 10, Edited by C Altavilla and S. Ciliberto, Taylor & Francis Group USA, October 2010

Lecce, February 28, 2013