

CURRICULUM VITAE
ELISABETTA FANIZZA
EUROPEAN FORMAT

PERSONAL INFORMATION

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Nazionalità/Nationality **ITALIANA**
Luogo e data di nascita/ Place and **Conversano (BARI) 10.01.1978**
Date of birth



WORK EXPERIENCE

March 2013-present

Name and address of employer University of Bari, Chemistry Department, Via Orabona 4 70126 Bari
Type of business or sector Nanochemistry
Occupation or position held *Researcher*
Main activities and responsibilities Development of colloidal nanoparticles (synthesis, characterization and functionalization) for energy conversion and biomedical applications. Research activities in the framework of the National funded Project Furb-Future in Research (RBF122HFZ). Teaching activities for the MSc Chemistry and BSc Chemistry

June 2013

Name and address of employer Tecknoweb Srl (IT)- Consorzio Interuniversitario di Ricerca in Chimica dei Metalli nei Sistemi Biologici (CIRCMSB) (IT)
business or sector Nanochemistry
Occupation or position held *Electron microscopy scientist*
Main activities and responsibilities Scanning Electron Microscopy characterization of non-woven fabric and fibers for Tecknoweb Srl (IT)

June 2010- June 2012

Name and address of employer METEA Research Center Università degli Studi di Bari (IT)
Type of business or sector Nanochemistry
Occupation or position held *Post Doc position*
Main activities and responsibilities Synthesis and characterization of colloidal photoactive nanomaterials for environmental application in the framework of the national project RELA-VALBIOR.

January 2010- June 2010

Name and address of employer CNR- Istituto per i Processi Chimico Fisici, Bari (IT)
Type of business or sector Nanochemistry
Occupation or position held *Post Doc position*
Main activities and responsibilities Synthesis and characterization of nanomaterials in the framework of the FP7 EU European Project METACHEM- FP/ EU CP FP 228762-2

January 2007- January 2010

Name and address of employer Università degli Studi di Bari- Chemistry Department (IT)
Type of business or sector Nanochemistry
Occupation or position held *Post Doc position*
Main activities and responsibilities Synthesis and characterization of colloidal luminescent and metal nanoparticles and their surface manipulation for supramolecular architecture in polymer matrix. The work is in the framework of the national FIRB project. RBNE03S7XZ

January 2007- February 2008

Name and address of employer MnF Laboratory-University of Twente (NL)

Type of business or sector	Nanochemistry
Occupation or position held	<i>Post doc University of Twente (13th months)</i>
Main activities and responsibilities	Syntheses and characterization of colloidal nanocrystals and suitable organic linker to built-up orthogonal supramolecular assembly exploiting host-guest and protein recognition interaction. The work is in the framework of the FP6 EU NaPa-Emerging Nanopatterning.

TEACHING ACTIVITY

Since 2013 she has been teaching for the following courses for the BSc/MSc Chemistry and Materials Science Degree: Physical Chemistry of Materials (MSc Chemistry), Laboratory of Photochemistry (Material Science), Laboratory of Physical Chemistry of Complex Systems (BSc Chemistry), Environmental Contamination (MSc, Natural and Environmental Science)
 Since 2013 she is tutoring BSc and MSc thesis.

EDUCATION AND TRAINING

April 2013

Name and type of organization providing education and training	CNR-Istituto per i Processi Chimica-Fisici , Bari (IT) – training activity
Principal subjects occupational skills covered	Advanced course in electron microscopy by Dr. Andrea Falqui (Kaust, Saudi Arabia) and Dr.Roberto Marotta (IIT, Istituto Italiano di Tecnologia)

2009-2011 (short staying)

Name and type of organization providing education and training	Electron Microscopy Groups (Nanochemistry Groups) at the IIT (Genova), Italian Institute of Technology
Principal subjects occupational skills covered	Colloidal Nanoparticle characterization by Transmission Electron Microscopy

October 2006 ; May 2006

Name and type of organization providing education and training	Training activity at the IBM Research Laboratory Reuschlikon- Zurich
Principal subjects occupational skills covered	Colloidal synthesis of luminescent nanoparticles as fluorescent labels of polystyrene beads and assembly onto patterned structure by capillary assembly.

November 2003-November 2006

Name and type of organization providing education and training	University of Bari and CNR-Istituto per i Processi Chimica-Fisici , Bari (IT)
Principal subjects occupational skills covered	Synthesis of luminescent semiconductor nanocrystals and core-shell type structure, semiconductor oxide and semiconductor oxide/metal composite and their characterization in solution and of their final assembly on solid surface by means of UV-Vis absorbance, photoluminescence and FT-IR spectroscopy, transmission electron microscopy and atomic force microscopy, XPS. The PhD work was held in the framework of the 6FP EU NAPA

Title of qualification awarded *PhD Chemical Science (3 years, PhD Fellowship)*

September 2004

Name and type of organization providing education and training	PhD School in Material Science- INFM-CNR, Sestri Levante (IT)
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August 2004

Name and type of organization providing education and training	PhD training activity on soft lithography at IBM Research Laboratory Reuschlikon- Zurich
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October 1997- March 2003

Name and type of organization providing education and training	University of Bari, Bari (IT)
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Title of qualification awarded *Master degree in Chemistry, with a thesis “Nanocrystal for the degradation of organic pollutants”, 110/110 cum laude*

RESEARCH ACTIVITIES

Research sectors	Nanochemistry an Nanomaterials characterization
Recent Scientific Activities	Solution based synthesis, characterization, functionalization of colloidal nanoparticles and multifunctional heterostructures for environmental, energy conversion, optical, biological and nanomedicine applications Basic of synthesis of organic derivatives, purification and characterization. Deposition by drop casting, spin coating, layer by layer, self assembled monolayer, microcontact printing for patterning. Fabrication of polymer stamp (polymethylsiloxane) and advanced composites by dispersing nanoparticles in polymer matrices (polydimethylsiloxane). Characterization techniques: UV-Vis-NIR Absorbance Spectroscopy, photoluminescence spectroscopy, Fourier Transform IR spectroscopy, Transmission electron microscopy, Scanning electron Microscopy, Atomic force Microscopy, , Surface Plasmon Resonance Spectroscopy, NMR, Isothermal Titration Microcalorimeter, Impedence spectroscopy

- Additional information She is co-authoring of several publications on peer-reviewed scientific journals (JCR) (40), with an H index=12 , conference proceedings (4) and book chapters (3) and participates to several national and international conferences, project meetings with oral or poster contribution. I have been involved in the following project:
- Project
- Progetto Bilaterale CNR-CNRST Morocco "Polymer nanocomposites based on carbon dots (cds): investigations toward energy storage applications" durata 2 anni 2016-2017
 - National Italian Project FIRB - Futuro in Ricerca "Design and synthesis of nano-heterogeneous materials for solar energy conversion" (RBFR122HFZ) – Scientific Responsible
 - European FP7 Project METACHEM "Nanochemistry and self assembly routes to metamaterials for visible light", NMP 2008 Small 2 (NMP 2.2.2 Nanostructured Metamaterials)(2009-2013)
 - National RELA-VALBIOR "Network of laboratories to support research in the area of "Innovative technologies for the valorisation of residual biomass of the productive sectors of Apulia Region" within the frame of Regional Framework Program for Scientific Research (Italy)(2009-2012)
 - National FIRB "Synthesis of new organic and supramolecular architectures for optoelectronic and fonic devices with high efficiency" (RBNE03S7XZ)
 - European FP6 Integrated Project NaPa "Emerging Nanopatterning Methods" (contr. N. 500120), (2004-2008)
- 2008-present. Tutoring activity for students of the degree in Chemistry and Materials Science and supervision of BSc/MChem and Master of Materials Science Theses
- Scientific collaboration with Researchers and scientific groups of the Chemistry Department, Physical Department at the University of Bari, Chemistry Department at the University of Pisa and University of Naples

- 1 A. Malafrente, F. Auriemma, R. Di Girolamo, C. Sasso, C. Diletto, A. E. Di Mauro, E. Fanizza, P. Morvillo, A. M. Rodriguez, A. B. Muñoz-Garcia, M. Pavone, C. De Rosa *J Phys. Chem. C* 2017, 121, 16617–16628
- 2 F. Gianfaldoni, F. De Nisi, G. Iasilli, A. Panniello, E. Fanizza, M. Striccoli, D. Ryuse, M. Shimizu, T. Biver, A. Pucci *RSC Advances*, 2017, 7, 37302–37309
- 3 N. Depalo, R. M. Iacobazzi, G. Valente, I. Arduino, S. Villa, F. Canepa, V. Laquintana, E. Fanizza, M. Striccoli, A. Cutrignelli, A. Lopodota, M. Franco, M. L. Curri, N. Denora, *NanoResearch* 2017, 10, 2431–2448
- 4 N. Depalo, V. De Leo, M. Corricelli, R. Gristina, G. Valente, E. Casamassima, R. Comparelli, V. Laquintana, N. Denora, E. Fanizza, M. Striccoli, A. Agostiano, L. Catucci, M. L. Curri, *J. Mater. Chem. B*, 2017, 5, 1471–1481
- 5 N. Denora, A. Lopodota, M. Perrone, V. Laquintana, R. M. Iacobazzi, A. Milella, E. Fanizza, N. Depalo, A. Cutrignelli, A. Lopalco, M. Franco, *Acta Biomaterialia*, 2016, 43, 170–184
- 6 Lopodota, A. Cutrignelli, V. Laquintana, N. Denora, R. M. Iacobazzi, M. Perrone, E. Fanizza, M. Mastrodonato, D. Dentino, A. Lopalco, N. Depalo, M. Franco, *Pharmaceutical Research*, 2016, 33, 2195–2208
- 7 F. Bellina, F. Manzini, G. Marianetti, C. Pezzetta, E. Fanizza, M. Lessi, P. Minei, V. Barone, A. Pucci, “Colourless p-phenylene-spaced bis-azoles for luminescent concentrators”, *Dyes and Pigments*, 2016, 134, 118–128
- 8 T. Latronico, N. Depalo, G. Valente, E. Fanizza, V. Laquintana, N. Denora, A. Fasano, M. Striccoli, M. Colella, A. Agostiano, M. L. Curri, M. G. Liuzzi, *PLOSOne*, 2016, 11, e0153451 (pp 25)
- 9 E. Fanizza, C. Urso, R. M. Iacobazzi, N. Depalo, M. Corricelli, A. Panniello, A. Agostiano, N. Denora, V. Laquintana, M. Striccoli, M. L. Curri, *Science and Technology of Advanced Materials*, 2016, 17, 98–108 (I.F. (2015) 3.433)
- 10 P. Minei, E. Fanizza, A. M. Rodríguez, A. B. Muñoz-García, P. Cimino, M. Pavone, A. Pucci, *RSC Adv.*, 2016, 6, 17474–17482 (I.F. (2015) 3.289; Cit. 1)
- 11 M. Corricelli, R. Comparelli, N. Depalo, E. Fanizza, V. B. Sadhu, J. Huskens, A. Agostiano, M. Striccoli, M. L. Curri, *Current Nanoscience*, 2016, 12, 386 (I.F. (2015) 0.934)
- 12 E. Fanizza, R. M. Iacobazzi, V. Laquintana, G. Valente, G. Caliandro, M. Striccoli, A. Agostiano, A. Cutrignelli, A. A. Lopodota, M. L. Curri, M. Franco, N. Depalo, N. Denora, *Nanoscale*, 2016, 8, 3350 (I.F. (2015) 7.760)
- 13 L. Cano, A. E. Di Mauro, F. Petronella, E. Fanizza, M. Striccoli, M. L. Curri, and A. Tercjak, *J Phys Chem C*, 2015, 119, 6435 (I.F. 4.46; Cit. 1)
- 14 M. Carlotti, E. Fanizza, A. Panniello, A. Pucci, *Solar Energy*, 2015, 119, 452, (I.F. 3.7; Cit. 3)
- 15 G. Valente, N. Depalo, I. de Paola, R. M. Iacobazzi, N. Denora, V. Laquintana, R. Comparelli, E. Altamura, T. Latronico, M. Altomare, E. Fanizza, M. Striccoli, A. Agostiano, M. Saviano, A. Del Gatto, L. Zaccaro, M. L. Curri, “Integrin targeting with peptide bioconjugated to semiconductor-magnetic nanocrystalline heterostructures”, *Nanoresearch*, 2016, 9, 644 (I.F. (2015) 8.893)
- 16 F. Petronella, M. L. Curri, M. Striccoli, E. Fanizza, C. Mateo-Mateo, R. A. Alvarez-Puebla, T. Sibillano, C. Giannini, M. A. Correa-Duarte, R. Comparelli, *Applied Catalysis B: Environmental*, 2015, 178, 91 (I.F. 8.3; Cit. 2)
- 17 M. Corricelli, D. Altamura, M. L. Curri, T. Sibillano, D. Siliqi, A. Mazzone, N. Depalo, E. Fanizza, D. Zanchet, C. Giannini, M. Striccoli, *CrystEngComm*, 2014, 16, 9482 (I.F. 4.03; Cit. 2)
- 18 A. Cutrignelli, A. Lopodota, N. Denora, R. Maria Iacobazzi, E. Fanizza, V. Laquintana, M. Perrone, V. Maggi, M. Franco, *J. Pharm. Sci*, 2014, 103, 3932 (I.F. 2.59)
- 19 E. Fanizza, C. Urso, V. Pinto, A. Cardone, N. Depalo, R. Ragni, M. L. Curri, A. Agostiano, G. Farinola, M. Striccoli, *J. Mater. Chem. C*, 2014, 2, 5286–5291 (Cover), (I.F. 4.7; Cit. 10)
- 20 M. Altomare, E. Fanizza, M. Corricelli, R. Comparelli, M. Striccoli, M. L. Curri, *J Nanoparticle Res*, 2014, 16:2468 (I.F. 2.18; Cit. 2)
- 21 M. Corricelli, N. Depalo, E. Di Carlo, E. Fanizza, V. Laquintana, N. Denora, A. Agostiano, M. Striccoli, M. L. Curri, *Nanoscale*, 2014, 6, 7924–33 (I.F. 7.39; Cit. 9)
- 22 M. Corricelli, N. Depalo, E. Fanizza, D. Altamura, C. Giannini, D. Siliqi, R. Di Mundo, F. Palumbo, V. G. Kravets, A. N. Grigorenko, A. Agostiano, M. Striccoli, M. L. Curri *J. Phys. Chem. C*, 2014, 118, 14, 7579–7590 (I.F. 4.77; Cit. 4)
- 23 T. Placido, E. Fanizza, P. Cosma, M. Striccoli, M. L. Curri, R. Comparelli, A. Agostiano *Langmuir*, 2014, 30, 2608–2618 (I.F. 4.46; Cit. 6)
- 24 E. A. Di Mauro, M. Striccoli, N. Depalo, E. Fanizza, L. Cano, C. Ingrosso, A. Agostiano, M. L. Curri, A. Tercjak, *Soft Matter*, 2014, 10, 1676–1684 (Back cover) (I.F. 4.03; Cit. 8)
- 25 N. Depalo, M. Tamborra, E. Fanizza, D. Di Gioia, A. Agostiano, M. L. Curri, M. Striccoli *Scie. Adv. Mater.*, 2014, 6, 505–512 (I.F. 2.6; Cit. 1)
- 26 De Luca, N. Depalo, E. Fanizza, M. Striccoli, M. L. Curri, M. Infusino, A. R. Rashed, M. La Deda, G. Strangi, 2013, 5, 6097–6105 (I.F. 6.74; Cit. 10)
- 27 F. Petronella, S. Diomedede, E. Fanizza, G. Mascolo, T. Sibillano, A. Agostiano, M. L. Curri, R. Comparelli, *Chemosphere*, 2013, 91, 941–947 (I.F. 3.5; Cit. 14)
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- 30 F. Petronella, E. Fanizza, G. Mascolo, V. Locaputo, L. Bertinetti, G. Martra, S. Coluccia, A. Agostiano, M. L. Curri, R. Comparelli, “Photocatalytic Activity of Nanocomposite Catalyst Films Based on Nanocrystalline Metal/Semiconductors” *J. Phys. Chem. C* 2011, 115, 12033–12040

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- 34 E. Fanizza,^s P.D. Cozzoli, M.L. Curri, M.Striccoli, E.Sardella, A. Agostiano "UV-light driven immobilization of surface-functionalized oxide nanocrystals onto silicon", *Adv. Fun. Mater.*, **2007**, 17, 201-211
- 35 P.D. Cozzoli, E. Fanizza, M. L. Curri, D. Laub, A. Agostiano "Low-dimensional chainlike assemblies of TiO₂ nanorod-stabilized Au nanoparticles", *Chem. Comm.* **2005** 7, 942-944
- 36 R..Comparelli, E.Fanizza, M.L. Curri, P.D. Cozzoli, G.Mascolo, A. Agostiano "UV-induced Photocatalytic Degradation of Azo Dyes by Organic-Capped Anatase ZnO Nanocrystals Immobilized onto Substrates", *Appl. Cat. B Environmental*, **2005**, 60, 1-11
- 37 R..Comparelli, E.Fanizza, M.L. Curri, P.D. Cozzoli, G.Mascolo, R. Passino, A. Agostiano "Photocatalytic Degradation of Azo Dyes by Organic -Capped Anatase TiO₂ Nanocrystals Immobilized onto Substrates", *Appl. Cat. B Environmental*, **2005**, 55, 81-91
- 38 P.D. Cozzoli, E. Fanizza, R. Comparelli, M.L. Curri, A. Agostiano, D. Laub "Role of Metal Nanoparticles in TiO₂/Ag Nanocomposite-Based Homogeneous Photocatalysis: the Case of Uniblue A", *J. Phys. Chem. B*, **2004** 108, 9623-9630
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Book Chapter

- R. Comparelli, T. Placido, N. Depalo, E. Fanizza, M.Striccoli, M. L. Curri "Synthesis and surface engineering of plasmonic nanoparticles" in "Active Plasmonic Nanomaterials Ed. L. De Sio, Pan Stanford Publishing, in press ISBN: 9789814613002.
- R. Comparelli, E. Fanizza, M. Striccoli, M. L. Curri "Characterization of inorganic nanostructured materials by electron microscopy" in "Inorganic Micro- and Nanomaterials" edited by A. Dibenedetto and M. Aresta, De Gruyter publishers and PTP-Berlin (2013) SBN (Online) 9783110306873 DOI (Chapter) 10.1515/9783110306873.157, DOI (Book): 10.1515/9783110306873
- M. L. Curri, R. Comparelli, N. Depalo, E. Fanizza, M. Striccoli "Inorganic Nanocrystals: Patterning and Assembling" in *Nanomaterials: Inorganic And Bioinorganic Perspectives* Edited by C. M. Lukehart and R. A. Scott, Chichester, 2008 UK John Wiley & Sons, Ltd, pp 327-356 ISBN: 978-0-470-51644-7

Proceedings

- N. Depalo, R. M. Iacobazzi, G. Valente,, I. Arduino, S. Villa, F. Canepa, V. Laquintana, E. Fanizza, M. Striccoli, A.Cutrignelli, A. Lopodota, L. Porcelli, A. Azzariti, M. Franco, N. Denora, M. L. Curri *IEEE 12th International Conference on Nano/Micro Engineered and Molecular Systems (NEMS)* April 9-12, 2017, 570- 573
- M. Labardi, D. Prevosto, H. K. Nguyen, M. Lucchesi, E. Fanizza, N. Depalo, M. Striccoli, *AIP Conference Proceedings 6th International Conference on Times of Polymers(top) and Composites* **2012**, 1459, 217
- R. Comparelli, A. Panniello, M. Corricelli, E. Fanizza, M. Striccoli, G. Mascolo, V. Locaputo, A. Agostiano, M. L. Curri "Colloidal nanocrystal films as catalysts for environmental applications" *Proceeding of RILEM Symposium 2007* Edited by Baglioni and Cassar RILEM publication SARL, Bagneux 259-266