

CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT

INFORMAZIONI PERSONALI/ PERSONAL INFORMATION

Nome, Cognome/Name, Surname	Giorgetti Emilia
Indirizzo/Address	Via Pier Capponi 21, 50132 FIRENZE Italy
Telefono/Telephone	+39055573444 (home) +5255.55963655 ext. 440 (office)
Fax	
E-mail	messico.scienza@esteri.it ; emiliagiorgetti59@gmail.com
Sito web/Website	
Nazionalità/Nationality	Italiana/Italian
Luogo e data di nascita/ Place and Date of birth	Firenze (Italy) 29 Settembre 1959

ESPERIENZA PROFESSIONALE /WORK EXPERIENCE

In ordine di data /Dates (from – to)]	Since March 2015
Nome e indirizzo del datore di lavoro / Name and address of employer	Ministero degli Affari Esteri e della Cooperazione Internazionale, Ambasciata d'Italia in Messico Paseo de las Palmas 1994 Col. Lomas de Chapultepec 11000 México, D.F. 55.55963655 ext. 440
Tipo o settore di attività / Type of business or sector	Scientific Officer
Funzione o posto occupato / Occupation or position held	Counselor
Principali mansioni e responsabilità / Main activities and responsibilities	Scientific and Technological Bilateral Cooperation
In ordine di data /Dates (from – to)]	January 2006 – February 2015
Nome e indirizzo del datore di lavoro / Name and address of employer	CNR-ISC Via Madonna del Piano 10, Sesto Fiorentino (Firenze), Italy
Tipo o settore di attività / Type of business or sector	Research and Research Management
Funzione o posto occupato / Occupation or position held	Senior Scientist
Principali mansioni e responsabilità / Main activities and responsibilities	Research and Research Management

2004 - 2006

Nome e indirizzo del datore di lavoro / Name and address of employer	CNR-ISC Via Madonna del Piano 10, Sesto Fiorentino (Firenze), Italy
Tipo o settore di attività / Type of business or sector	Research and Research Management
Funzione o posto occupato / Occupation or position held	Scientist
Principali mansioni e responsabilità / Main activities and responsibilities	Research and Research Management

1988 - 2004

Nome e indirizzo del datore di lavoro / Name and address of employer	CNR-IFAC Via Panciatichi 64, Firenze, Italy
Tipo o settore di attività / Type of business or sector	Research
Funzione o posto occupato / Occupation or position held	Scientist
Principali mansioni e responsabilità / Main activities and responsibilities	Research

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1986 -1988

Nome e indirizzo del datore di lavoro / Name and address of employer	CNR-IFAC Via Panciatichi 64, Firenze, Italy
Tipo o settore di attività / Type of business or sector	Research
Funzione o posto occupato / Occupation or position held	Post Doc Student
Principali mansioni e responsabilità / Main activities and responsibilities	Research

**ISTRUZIONE E FORMAZIONE /
EDUCATION AND TRAINING**

In ordine di data /Dates (from – to) March 25, 1985

Nome e tipo d'istituto di istruzione o formazione / Name and type of organisation providing education and training	University of Firenze (Italy)
Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	Optics, Materials Science, Spectroscopy

Certificato o diploma ottenuto /Title of qualification awarded **Laurea Degree in Physics from University of Firenze (Italy)**

Livello nella classificazione nazionale / Level in National classification 110/110 magna cum Laude

ATTIVITA' DI RICERCA / RESEARCH ACTIVITIES

Attuali campi di ricerca / Research
sectors

E.G.'s **most recent research activity** is focused on the following themes:

1. Fluorescent organic materials for sensing devices.
2. Metal-dielectric surface interactions and plasmonics.
3. Fabrication, characterization and modeling of metal nanoparticles.
4. Surface Enhanced Raman Spectroscopy (SERS)

Recenti attività scientifiche/ Recent
Scientific Activities.

E.G.'s research activity is described in more than **130 scientific publications** (100 being in international journals with referee), more than **180** presentations at international scientific conference, of which many upon invitation. **H-index = 21** (Google Scholar)

E.G. is **referee** of the most qualified international scientific journals in her research field. Among them: J.Phys.Chem., Phys.Chem.Chem.Phys, Analyst, Appl.Opt., Optics Letters, J.Opt.Soc.Am.B, Chem.Phys.Lett.

Responsibility of national and international research programs during the last 5 years:

- **2011-2013**: Responsible of ISC group in the framework of Italian Project PRIN 2009 "Novel materials and processes for plasmonic sensors".
- **2011-2013**: Responsible of ISC group in the framework of Regione Toscana funded Project PAR-FAS - NABLA "Nanoparticelle metalliche prodotte per Ablazione Laser".
- **2009-2012**: Italian responsible in the framework of a bilateral collaboration with Bulgarian Academy of Sciences: CNR/BAS (Bulgaria).
- **2008-2009**: Responsible of ISC group in the framework of Italian Project PRIN 2007 "Plasmonic nanostructures and their interactions with chromophores: towards photonic devices and novel optical sensors".
- **2007-2011**: Project responsible in the framework of European Union COST Action MP0702.
- **since 2009**: Italian representative in the Management Committee of European Union COST Action MP0803.
- **2001-2011**: Italian responsible in the framework of a bilateral collaboration between CNR and CONACyT (Messico).

Pubblicazioni/ Books and
Articles

SOME SIGNIFICANT PAPERS IN INTERNATIONAL JOURNALS

M Muniz-Miranda, C Gellini, **E Giorgetti**, G Margheri, "Bifunctional Fe₃O₄/Ag nanoparticles obtained by two-step laser ablation in pure water", **Journal of Colloid and Interface Science** 489, 100-105 (2017)

Enrique Arias, Maria Teresa Méndez, Eduardo Arias, Ivana Moggio, Antonio Ledezma, Jorge Romero, Giancarlo Margheri, **Emilia Giorgetti**, "Supramolecular Recognition of Escherichia coli Bacteria by Fluorescent Oligo (Phenyleneethynylene)s with Mannopyranoside Termini Groups" **Sensors** 17, 5 (2017)

Shahid Husain, Lila A Alkhtaby, **Emilia Giorgetti**, Angela Zoppi, Maurizio Muniz Miranda, "Influence of cobalt doping on the structural, optical and luminescence properties of sol-gel derived TiO₂ nanoparticles", **Philosophical Magazine** 97, 1 (2017)

B Perito, **E Giorgetti**, P Marsili, M Muniz-Miranda, "Antibacterial activity of silver nanoparticles obtained by pulsed laser ablation in pure water and in chloride solution", **Beilstein Journal of Nanotechnology** 7 (1), 465-473 (2016)

Emilia Giorgetti, Paolo Marsili, Francesco Giammanco, Silvana Trigari, Cristina Gellini, Maurizio Muniz Miranda, "Study of the Surface Properties of Silver Nanoparticles obtained by Pulsed Laser Ablation in Water", **J. Raman Spectroscopy** 46 (5), 462-469 (2015)

E. Giorgetti, P. Marsili, S. Cicchi, L. Lascialfari, M. Albiani, M. Severi, S. Caporali, M. Muniz-Miranda, A. Pistone and F. Giammanco, "Preparation of small size palladium nanoparticles by picosecond laser ablation and control of metal concentration in the colloid", **J. of Colloids and Interface Sciences** vol. 442, pp. 89-

96 (2015).

A. Zoppi, S. Trigari, M. Muniz-Miranda and **E. Giorgetti**, “*Gold nanostars as SERS active substrates by 1064-nm laser excitation*”, **RSC Advances**, 5 (11), 8523-8532 (2015)

Shahid Husain, Lila A Alkhtaby, **Emilia Giorgetti**, Angela Zoppi, Maurizio Muniz Miranda, “*Effect of Mn doping on structural and optical properties of sol gel derived ZnO nanoparticles*”, **J. Luminescence** 145, 132-137 (2014)

Luisa Lascialfari, Paolo Marsili, Stefano Caporali, Maurizio Muniz-Miranda, Giancarlo Margheri, Andrea Serafini, Alberto Brandi, **Emilia Giorgetti**, Stefano Cicchi, “*Carbon nanotubes/laser ablation gold nanoparticles composites*”, **Thin Solid Films**, 569, 93-99 (2014)

E. Giorgetti, P. Marsili, P. Canton, M. Muniz Miranda, S. Caporali, F. Giammanco, “*Cu/Ag-based bifunctional nanoparticles obtained by one-pot laser assisted galvanic replacement*”, **J. Nanoparticle Research**, DOI: 10.1007/s11051-012-1360-0, vol 15 (1) , pp. 1-12 (2013)

E. Giorgetti, M. Muniz-Miranda, P. Marsili, D. Scarpellini, F. Giammanco, “*Stable Gold Nanoparticles Obtained in Pure Acetone by Laser Ablation with Different Wavelengths*”, **J. of Nanoparticle Research**, vol.14 n.1, DOI: 10.1007/s11051-011-0648-9 (2012)

Silvana Trigari, Alessio Rindi, Giancarlo Margheri, Stefano Sottini, Giovanna Dellepiane, and **Emilia Giorgetti**, “*Synthesis and Modelling of Gold Nanostars with Tunable Morphology and Extinction Spectrum*”, **J. Materials Chemistry**, vol. 21, 6531-6540 (2011)

Maurizio Muniz-Miranda, Cristina Gellini, **Emilia Giorgetti**, “*Surface Enhanced Raman Scattering from copper nanoparticles obtained by laser ablation*”, **J.Phys.Chem.C** , vol. 115, pp. 5021-5027 (2011).

E.Giorgetti, F.Giammanco, P.Marsili, A.Giusti, “*Effect of ps post-irradiation on colloidal suspensions of differently capped AuNPs*”, **J.Phys.Chem.C** vol. 115, pp. 5011-5020 (2011).

E Giorgetti, S Cicchi, M Muniz-Miranda, G Margheri, T Del Rosso, A Giusti, “*Förster resonance energy transfer (FRET) with a donor–acceptor system adsorbed on silver or gold nanoisland films*” **Physical Chemistry Chemical Physics** 11 (42), 9798-9803 (2009)

G. Margheri, T. Del Rosso, S.Sottini, S. Trigari, and **E.Giorgetti**, “*All optical switches based on the coupling of surface plasmon polaritons*”, **Optics Express**, vol.16, n.13, pp.9869-9883 (2008).

A.Giusti, **E.Giorgetti**, S.Laza, P.Marsili, F.Giammanco, “*Multiphoton fragmentation of PAMAM G5-capped-gol-nanoparticles induced by picosecond laser irradiation at 532nm*” **Journal of Physical Chemistry C** , vol.111, pp. 14984-14991 (2007).

E. Giorgetti, M. Muniz-Miranda, G. Margheri, A. Giusti, S. Sottini, M. Alloisio, C. Cuniberti, G. Dellepiane, “*UV polymerisation of self-assembled monolayers of a novel diacetylene on silver: a spectroscopic analysis by Surface Plasmon Resonance and by Surface Enhanced Raman Scattering*”, **Langmuir** , vol.22(3), pp.1129-1134 (2006).

E.Giorgetti, G.Margheri, T.DelRosso, S.Sottini, M.Muniz-Miranda, M.Innocenti, “*A study of the degradation of Poly(3-octylthiophene)-based light emitting diodes by Surface Enhanced Raman Scattering*”, **Applied Physics B**, vol. 79, pp.603-609 (2004).

E. Giorgetti, G. Toci, M. Vannini, F. Giammanco, “*Multiphoton absorption of solutions of polydiacetylene polyDCHD-HS measured using ps Z-scan at 1064 and 1500nm*”, **Optics Communications**, vol. 217/1-6, pp. 431-439 (2003).

E. Giorgetti, G. Margheri, S. Sottini, G. Toci, M. Muniz-Miranda, L. Moroni and G. Dellepiane, "Optical characterization of quasi-monomolecular layers of the nonlinear polymer polyDCHD-HS", **Physical Chemistry and Chemical Physics**, vol.4, n.12, pp. 2762-2767 (2002).

E. Giorgetti, G. Margheri, S. Sottini, M. Casalboni, R. Senesi, E. Scarselli, R. Pizzoferrato, "Dye-doped Zirconia-based Ormosil planar waveguides: optical properties and surface morphology", **The Journal of Non Crystalline Solids**, vol. 255, pp. 193-198 (1999).

E. Giorgetti, D. Grando, L. Palchetti, S. Sottini, "Thermal annealing of K^+Na^+ ion exchanged waveguides.", **Optics Letters**, vol. 20, n. 12, pp. 1374-1376 (1995).

S. Sottini, **E. Giorgetti**, "Theoretical analysis of a new family of geodesic lenses", **Journal of the Optical Society of America A**, vol. 4, pp. 346-351 (1987).

**ULTERIORI INFORMAZIONI /
ADDITIONAL INFORMATION**

Languages

Indicate your language proficiency: P – poor G - good E - excellent							
Language	speaking	reading	writing	Language	speaking	reading	writing
English	G	E	E				
Spanish	E	E	E				
French	P	G	P				

**TRATTAMENTO DEI DATI
PERSONALI, INFORMATIVA E
CONSENSO**

Il D.Lgs. 30/6/2003, n. 196 "Codice in materia di protezione dei dati personali" regola il trattamento dei dati personali, con particolare riferimento alla riservatezza, all'identità personale e al diritto di protezione dei dati personali; l'interessato deve essere previamente informato del trattamento .

La norma in considerazione intende come "trattamento" qualunque operazione o complesso di operazioni concernenti la raccolta, la registrazione, l'organizzazione, la conservazione, la consultazione, l'elaborazione, la modifica, la selezione, l'estrazione, il raffronto, l'utilizzo, l'interconnessione, il blocco, la comunicazione, la diffusione, la cancellazione e la distruzione di dati, anche se non registrati in una banca dati.

In relazione a quanto riportato, autorizzo il CNR al trattamento dei dati contenuti nel presente *curriculum vitae* e nella documentazione della quale fa parte integrante

(barrare la casella) **Si, acconsento**