Francesco Di Maiolo

Curriculum Vitae

Education

2009–2012 **Bachelor of Science**, *Chemistry*, Parma University, Italy
110/110 with honors, with a theoretical thesis entitled "Real-time vibrational spectroscopy". Supervisor: Prof. Anna Painelli.

2012–2014 **Master of Science**, *Chemistry*, Parma University, Italy
110/110 with honors, with a theoretical thesis entitled "Electron transfer and magnetism: an exploratory study". Supervisor: Prof. Anna Painelli.

2014–2018 **Ph.D.**, *Chemical Sciences*, Parma University, Italy
"Summa cum laude", with a dissertation entitled "From Molecules to Materials: Static and Dynamic Properties of Complex Systems". Supervisor: Prof. Anna Painelli.

Research Experience

2014 **Research Fellow**, with Prof. Francesca Terenziani, Parma University, Italy

2018–2019 **Postdoctoral Fellow**, with Prof. Anna Painelli, Parma University, Italy

2019 **Postdoctoral Fellow**, with Prof. Irene Burghardt, Institute of Physical and Theoretical Chemistry, Goethe University Frankfurt, Germany

2020–2021 **Alexander von Humboldt Postdoctoral Fellow**, with Prof. Irene Burghardt, Institute of Physical and Theoretical Chemistry, Goethe University Frankfurt, Germany

2022–2026 **Researcher (ricercatore a tempo determinato A - RTDA)**, Parma University, Italy

2026–present **Researcher (ricercatore a tempo determinato in Tenure Track - RTT)**, Parma University, Italy

Recognitions

2025 **Applied for ERC Starting Grant 2025**, Received 'A' evaluation (high quality proposal recommended for funding if budget allows).

2025 **Expert evaluator for Marie Skłodowska-Curie ITN proposals (European Commission, Horizon Europe)**

2026 **External expert evaluator for proposals submitted to the French National Research Agency (ANR) in the frame of the Appel à projets générique**

Grants

- **Alexander von Humboldt postdoctoral fellowship**, total amount: 79,080 €

Prizes

- **Italian Chemical Society "Prize for the best scientific paper 2020"**, with motivation "For the distinct contribution to the development of a theoretical method aimed at studying the phenomena of resonant energy transfer as a tool for characterizing the dynamics of photoexcited states in the presence of dynamic disorder" as relevant to the paper Phys. Chem. Chem. Phys. 22, 1061-1068 (2020) "Dynamical disorder and resonance energy transfer: a novel quantum-classical approach"

Projects

- **"Bando di ateneo per la ricerca 2025 - azione C"**, awarded by the Parma University (October 2025). Di Maiolo is the Principal Investigator. Budget: 30,000.00 €. The grant supports the strengthening of Di Maiolo's track record for the resubmission of the ERC proposal rated 'A' in the 2025 call.
- **"Bando di ateneo per la ricerca 2023 - azione B"**, awarded by the Parma University (December 2023) for the project "Design of novel organic emitters for highly efficient OLED: Theory meets Synthesis". Di Maiolo is the Principal Investigator. Budget: 11,290.73 €.
- **International Collaborative Research Program of ICR, Kyoto University**, as PI within the project "Design of novel organic emitters for highly efficient OLED: Theory meets Synthesis" (April 2025-February 2026). Budget: 800,000 JPY, and as collaborator within the project "Modelling, design and synthesis of chiral dyes for CISS and CPL" (April 2024-February 2025). Budget: 1,300,000 JPY.
- **Italian SuperComputing Resource Allocation (ISCRA)**, awarded by CINECA for the projects IsCb8_InveST (HP10CIDH42), IsCc9_BRIGHT (HP10C9U7XF), and IsCd8_BRIGHTER (HP10C3N811). Di Maiolo is the Principal Investigator. Budget as standard machine hours on Galileo100: 16,667 per project.
- **Focus line A/B "Promotion of independent grant proposals"**, Goethe Research Academy for Early Career Researchers (GRADE), Goethe University Frankfurt (September 2021), to support the preparation of independent grant proposals (e.g., ERC Starting grant) through proposal workshops, expert instructors and support by an academic mentor during the application phase.

Research interests

Di Maiolo is interested in both method development and applications in four main areas:

1) Study of organic diradical systems of interest for quantum technologies, with particular emphasis on their potential use as optically-addressable molecular qubits and on the theoretical description of their electronic and spin properties;
2) Electronic structure calculations on chromophores for OLED applications. Di Maiolo has developed his own code for running truncated configuration interaction (CI) over a class of multiresonant TADF dyes described in terms of the Pariser-Parr-Pople model;
3) Non-adiabatic dissipative dynamics in photoexcited organic systems by means of both quantum and quantum-classical hybrid approaches. Among them, Di Maiolo uses the Ehrenfest

approach, Bloch equation, non-secular Redfield equation, Quantum-Classical Liouville Equation (QCLE), Quantum-Classical Hydrodynamic (Navier-Stokes) equations, Multi-Layer Multi-Configuration Time-Dependent Hartree approach (ML-MCTDH), Multi-Layer Gaussian-based Multi-Configuration Time-Dependent Hartree approach (ML-GMCTDH);

4) Magnetic and electric properties in condensed matter organic systems characterized by highly interacting electrons delocalized on deformable crystal lattices, described by means of modified/extended Hubbard and Peierls-Hubbard models.

Scientific publications (*=corresponding author)

1 Sissa, C.; Delchiaro, F.; Di Maiolo, F.; Terenziani, F.; Painelli, A.* Vibrational Coherences In Charge-Transfer Dyes: A Non-Adiabatic Picture *J. Chem. Phys*, 141, 164317 (2014).

2 Di Maiolo, F.; Sissa, C.; Painelli, A.* Combining intra- and intermolecular charge-transfer: a new strategy towards molecular ferromagnets and multiferroics *Scientific Reports*, 6, 19682 (2016).

3 Di Maiolo, F.; Masino, M.; Painelli, A.* Terahertz-pulse driven modulation of electronic spectra: Modeling electron-phonon coupling in charge-transfer crystals *Phys. Rev. B*, 96, 075106 (2017).

4 Di Maiolo, F.; Painelli, A.* Intermolecular Energy Transfer in Real Time *J. Chem. Theory Comput.*, 14, 5339-5349 (2018). (**COVER PAPER**)

5 Anzola, M.; Di Maiolo, F.; Painelli, A.* Optical spectra of molecular aggregates and crystals: testing approximation schemes *Phys. Chem. Chem. Phys.*, 21, 19816-19824 (2019).

6 Di Maiolo, F.; Painelli, A.* Dynamical disorder and resonance energy transfer: a novel quantum-classical approach *Phys. Chem. Chem. Phys.*, 22, 1061-1068 (2020).

7 Phan Huu, D. K. A.; Dhali, R.; Pieroni, C.; Di Maiolo, F.; Sissa, C.; Terenziani, F.; Painelli, A.* Antiadiabatic View of Fast Environmental Effects on Optical Spectra *Phys. Rev. Lett.*, 124, 107401 (2020).

8 Di Maiolo, F.*; Brey, D.; Binder, R.; Burghardt, I.* Quantum dynamical simulations of intra-chain exciton diffusion in an oligo (para-phenylene vinylene) chain at finite temperature *J. Chem. Phys.*, 153, 184107 (2020).

9 Di Maiolo, F.; Worth, G. A.; Burghardt, I.* Multi-layer Gaussian-based multi-configuration time-dependent Hartree (ML-GMCTDH) simulations of ultrafast charge separation in a donor–acceptor complex *J. Chem. Phys.*, 154, 144106 (2021).

10 Giavazzi, D.; Di Maiolo, F.; Painelli, A.* The fate of molecular excited states: modeling donor–acceptor dyes *Phys. Chem. Chem. Phys.*, 24, 5555-5563 (2022).

11 Giavazzi, D.; Saseendran, S.; Di Maiolo, F.*; Painelli, A. A Comprehensive Approach to Exciton Delocalization and Energy Transfer *J. Chem. Theory Comput.*, 19, 2, 436-447 (2023). (**COVER PAPER**)

12 Swathi, K.; Sujith, M.; Divya, P. S.; Varghese P, M.; Delledonne, A.; Phan Huu, D. K. A.; Di Maiolo, F.; Terenziani, F.; Lapini, A.; Painelli, A.; Sissa, C.*; Thomas K. G.* From symmetry breaking to symmetry swapping: is Kasha's rule violated in multibranched phenyleneethynylenes? *Chem. Sci.*, 14, 1986-1996 (2023).

13 Crovini, E.; Dhali, R.; Sun, D.*; Matulaitis, T.; Comerford, T.; Slawin, A. M. Z.; Sissa, C.; Azzolin, F.; Di Maiolo, F.; Painelli, A.*; Zysman-Colman, E.* Molecular geometry and the photophysics of thermally activated delayed fluorescence: the strange case of DMAC-py-TRZ *J. Mater. Chem. C*, 11, 8284-8292 (2023).

14 Giavazzi, D.; Schumacher, M.; Grisanti, L.; Anzola, M.; Di Maiolo, F.; Zablocki, J.; Lützen, A.; Schiek, M.*; Painelli, A.* A Marvel of Chiral Squaraine Aggregates: Chiroptical Spectra beyond the Exciton Model *J. Mater. Chem. C*, 11, 8307-8321 (2023).

15 Bardi, B; Giavazzi, D.; Iagatti, A.; Ferrari, E.; Di Donato, M.; Phan Huu, D. K. A.; Di Maiolo, F.; Sissa, C.; Masino, M.; Lapini, A.*; Painelli, A.* Solid State Solvation: a fresh view *Mater. Horiz.*, 10, 4172-4182 (2023).

16 Bedogni, M.; Giavazzi, D.; Di Maiolo, F.*; Painelli, A. Shining light on inverted singlet-triplet emitters *J. Chem. Theory Comput.*, 20, 2, 902–913 (2023). (**COVER PAPER**)

17 Di Maiolo, F.†; Phan Huu, D. K. A.†; Giavazzi, D.; Landi, A.; Racchi, O.; Painelli, A.* Shedding light on thermally-activated delayed fluorescence *Chem. Sci.*, 15, 5434-5450 (2024), Advance Article. †: these Authors contributed equally.

18 Bedogni, M.; Di Maiolo, F.* Singlet–Triplet Inversion in Triangular Boron Carbon Nitrides *J. Chem. Theory Comput.*, 20, 19, 8634-8643 (2024). (**INVITED PAPER**)

19 Dubbini, M.; Bonvini, F.; Savi, L.; Di Maiolo, F.* Turning on Organic Radical Emitters, *J. Phys. Chem. C*, 128, 43, 18158-18169 (2024). (**INVITED PAPER**)

20 Skonieczny, K.†; Di Maiolo, F.†; Venturi, S.†; Iagatti, A.; Ricci, A.; Bertocchi, F.; Gryko, D. T.*; Lapini, A.* How nitro group position determines the emission properties of diketopyrrolopyrroles, *Phys. Chem. Chem. Phys.*, 2025, 27, 5965-5972. †: these Authors contributed equally. (**COVER PAPER**)

21 Scurti, S.*; Racchi, O.; Spinoso, V.; Bussolari, A.; D'Altri, G.; Gualandi, I.; Di Maiolo, F.*; Sissa, C.; Caretti, D. Symmetric azobenzene-substituted diketopyrrolopyrroles dyes as acid-base switchable molecular-probe for colorimetric paper-based sensors, *Dyes and Pigments*, 2025, 245, 113288.

22 Savi, L.; Barreca, M. T.; Bedogni, M.; Di Maiolo, F.* Organic Diradicals Bridged by Inverted Singlet-Triplet Units for Optical-Spin Interfaces, *J. Chem. Theory Comput.*, 22 (3), 1465-1475 (2026). (**COVER PAPER**)

23 Rizzo, A. G.; Barreca, M. T.; Di Maiolo, F.* Particle–Hole Symmetry Breaking in Nitrogen-Decorated Triphenylmethyl Radical Emitters, *J. Phys. Chem. A*, 130 (6), 1338-1350 (2026).

24 Garrido-Rodríguez, S.; Poronik, Y. M.; Delledonne, A.; Pescina, S.; Vargas-Nadal, G.; Morla-Folch, J.; Racchi, O.; Di Maiolo, F.; Ventosa, N.; Sissa, C.*; Gryko, D. T.*; Köber, M.* Stable ultrabright nanoprobes for two-photon excitation microscopy based on octupolar merocyanine-loaded nanovesicles, *J. Mater. Chem. B* (2026) DOI:10.1039/D5TB02465J.

25 Barreca, M. T.; Di Maiolo, F.* Spin Coupling in Symmetric and Asymmetric Allyl and Phenalenyl Diradicals Bridged by an Inverted Singlet-Triplet System, *J. Phys. Chem. A* 2026, 130, 11, 2399–2410.

26 Barreca, M. T.; Di Maiolo, F.* Light-controlled qubit coupling in organic diradicals linked by an MR-TADF emitter, *J. Mater. Chem. C* (2026) DOI:10.1039/d6tc01608a. (**INVITED PAPER**)

27 Russo, G.; Serafino, A.; Barreca, M. T.; Zoccola, D; Magni, R.; Di Maiolo, F.; Marchiò, L.; Maggi, R.; Maestri, G.; Lanzi, M.* Visible Light-Mediated Dearomative Cyclopropanation of Benzoheterocycles via 3-exo-trig Radical Cyclization, *ACS Org. Inorg. Au* (2026) DOI:10.1021/acsorginorgau.6c00087.

28 Zhu, Y.; Wang, X.; Barreca, M. T.; Wang, S.; Zeng, W.; Zhu, Z.; Han, Y.; Peng, Q.*; Di Maiolo, F.*; Abdurahman, A.* Spin-Correlated Wavelength-Intensity Dual Modulation in Organic Diradicals via Excited-State Channel Engineering, *Angew. Chem. Int. Ed.* (2026), just accepted.

Invited talks

1 Flipping the Rules: From Inverted Singlet-Triplet Gaps to Diradical Switches, Journées Méditerranéennes des Jeunes Chercheurs (JMJC 2026), Nice, October 8-9, 2026;

2 Flipping the Rules: From Inverted Singlet-Triplet Gaps to Diradical Switches, Beyond the Quantum Year: Theoretical Chemistry Meets the Scuola Superiore Meridionale (QMChem@SSM), Naples (Italy), February 4-6, 2026;

3 Flipping the Rules: From Inverted Singlet–Triplet Gaps to Radical Switches, Donegani Conference, Accademia dei Lincei, Rome (Italy), November 25-26, 2025;

4 Inverted Singlet-Triplet Emitters: A Pariser-Parr-Pople Approach, 14th International Conference on Electroluminescence and Optoelectronic Devices (ICEL2024), Kyoto (Japan), November 12-15, 2024;

5 Dynamical Disorder and Resonance Energy Transfer: a Novel Quantum-Classical Approach, Virtual Symposium on Chemical Theory and Computation (VS-CTC), online event, December 21, 2020;

6 Quantum Molecular Dynamics in Out of Equilibrium Environments: Redfield-Smoluchowski and Hydrodynamic Approaches, Mathematics Department, University of Surrey, Guildford (UK), October 5, 2022;

7 Harvesting triplet excitons in TADF emitters with negative singlet-triplet gap: The path towards highly efficient OLEDs, Institut fuer Physikalische und Theoretische Chemie, Goethe University Frankfurt, Frankfurt (Germany), August 1, 2023.

Contributed talks

1 Di Maiolo, F.; Masino, M.; Painelli, A. ET-F2TCNQ: vibrationally pumped optical spectra, OP2017: 12th International Conference on Optical Probes of Organic and Hybrid Semiconductors, Québec City, Canada, June 19-23, 2017.

2 Di Maiolo, F.; Pieroni, C.; Painelli, A. Intermolecular Energy Transfer in Real Time, XXVI National Congress of the Italian Chemical Society (SCI 2017), Paestum, Italy, September 10-14, 2017.

3 Di Maiolo, F.; Painelli, A. Intermolecular energy transfer in real time, PPES 2018, Pisa, Italy, June 24-27, 2018.

4 Di Maiolo, F.; Painelli, A. Intermolecular energy transfer in real time, WIVACE 2018 XIII Workshop on Artificial Life and Evolutionary Computation, Parma, Italy, September 10-12, 2018.

5 Di Maiolo, F.; Burghardt, I. Theoretical Approaches to Quantum Molecular Dynamics in Out of Equilibrium Environments, WE-Heraeus-Seminar: Koopman Methods in Classical and Classical-Quantum Mechanics, online event, April 19-23, 2021.

6 Di Maiolo, F.; Burghardt, I. Quantum molecular dynamics in out of equilibrium environments: Redfield-Smoluchowski and hydrodynamic approaches, CECAM-FR-MOSER Flagship Workshop "Nonequilibrium dynamical solvent effects on excited states: from spectroscopy to photoreactivity", online event, June 14-17, 2021.

7 Di Maiolo, F.; Burghardt, I. Quantum molecular dynamics in out of equilibrium environments: Redfield-Smoluchowski and hydrodynamic approaches, CT4OPTO Workshop "Principles of light-induced charge transfer for optogenetics", online event, June 14-16, 2021.

8 Di Maiolo, F.; Burghardt, I. Theoretical Approaches to Quantum Molecular Dynamics in Out of Equilibrium Environments, XXVII National Congress of the Italian Chemical Society (SCI 2021), online event, September 14-23, 2021.

9 Di Maiolo, F.; Dhali, R.; Saseendran, S.; Phan Huu, D. K. A.; Giavazzi, D.; Sissa, C.; Terenziani, F.; Painelli, A. Organic light emitting devices (OLED): a playground for multidisciplinary research, Italian Conference on Optics and Photonics (ICOP), Trento, Italy, June 15-17, 2022.

10 Crovini, E.; Dhali, R.; Sun, D.; Matulaitis, T.; Comerford, T.; Cordes, D. B.; Slawin, A. M. Z.; Sissa, C.; Azzolin, F.; Di Maiolo, F.; Painelli, A.; Zysman-Colman, E. Understanding Large Dihedral Angle Relaxation of DMAC-py-TRZ: A joint Experimental and Computational Study of TADF Dye, International Conference on the Science and Technology of Synthetic Metals (ICSM), Glasgow, UK, July 17-22, 2022.

11 Di Maiolo, F.; Burghardt, I. Quantum dynamics of exciton transport in semiconducting polymer chains, International Conference on the Science and Technology of Synthetic Metals (ICSM), Glasgow, UK, July 17-22, 2022.

12 Di Maiolo, F.; Bedogni, M.; Painelli, A. Harvesting triplet excitons in TADF emitters with negative singlet-triplet gap: The path towards highly efficient OLEDs, VII CONGRESSO DELLA DIVISIONE DI CHIMICA TEORICA E COMPUTAZIONALE (DCTC2022), Modena, Italy, September 21-23, 2022.

13 Di Maiolo, F.; Bedogni, M.; Giavazzi, D.; Painelli, A. Inverted Singlet-Triplet Emitters:The path towards highly efficient OLEDs, Quantum Dynamics and Spectroscopy of Functional Molecular Materials and Biological Photosystems (Les Houches 2023), Les Houches, France, September 3-8, 2023.

14 Di Maiolo, F.; Bedogni, M.; Giavazzi, D.; Painelli, A. Shining Light on Inverted Singlet-Triplet Emitters, 26. International Conference on Science and Technology of Synthetic Electronic Materials (ICSM2024), Dresden, Germany, June 23-28, 2024.

15 Bedogni, M.; Di Maiolo, F. Shining Light on Inverted Singlet-Triplet Emitters, The Congress of Theoretical Chemists of Latin Expression (CHITEL2024), Namur, Belgium, June 30-July 5, 2024.

16 Bedogni, M.; Di Maiolo, F. Shining Light on Inverted Singlet-Triplet Emitters, XXVIII Congresso Nazionale della Società Chimica Italiana (SCI2024), Milan, Italy, August 26-August 30, 2024.

17 Savi, L.; Barreca, M. T.; Bedogni, M.; Di Maiolo, F. Organic Diradicals Bridged by Inverted Singlet-Triplet Units for Optical-Spin Interfaces, Optical Probes 2025 (OP2025), Fukuoka, Japan, September 21-26, 2025.

18 Savi, L.; Barreca, M. T.; Bedogni, M.; Di Maiolo, F. Flipping the Rules: From Inverted Singlet-Triplet Gaps to Diradical Switches, 15th International Conference on Electroluminescence and Optoelectronic Devices (ICEL2026), Namur, Belgium, May 10-15, 2026.

19 Savi, L.; Barreca, M. T.; Bedogni, M.; Di Maiolo, F. Organic Diradicals Bridged by Inverted Singlet-Triplet Units for Optical-Spin Interfaces, The 10th EuChemS Chemistry Congress (ECC10), Antwerp, Belgium, July 12-16, 2026.

20 Savi, L.; Barreca, M. T.; Bedogni, M.; Di Maiolo, F. Flipping the Rules: From Inverted Singlet-Triplet Gaps to Diradical Switches, The 5th International Conference on Interface Properties in Organic and Hybrid Electronics (IPOE2026), Bologna, Italy, September 14-16, 2026.

Posters

1 Sissa, C.; Delchiaro, F.; Di Maiolo, F.; Terenziani, F.; Painelli, A. Vibrational Coherences In Multipolar Dyes: A Non-Adiabatic Approach, 3rd Italian Meeting on Raman Spectroscopy and Non-Linear Optical Effects, Parma, Italy, June 9-11, 2014.

2 Sissa, C.; Delchiaro, F.; Di Maiolo, F.; Terenziani, F.; Painelli, A. Vibrational Coherences In Multipolar Dyes: A Non-Adiabatic Approach, Indo-Italian Meeting – Light on Molecular Functional Materials, Bangalore, India, March 10-11, 2015.

3 Di Maiolo, F.; Agazzi, S.; Painelli, A. Combining Intra & Intermolecular Charge-Transfer: MPTTF-PTM, A New Segregated Stack, School and Workshop on Strongly Correlated Electronic Systems – Novel Materials and Novel Theories, Abdus Salam International Centre for Theoretical Physics, Miramare, Trieste, Italy, August 10-21, 2015.

4 Di Maiolo, F.; Painelli, A. ET-F_2TCNQ: vibrationally pumped optical spectra, 21st ETSF Workshop on Electronic Excitations: dynamics and spectroscopy of correlated systems, Eden University, Lund, Sweden, September 20-23, 2016.

5 Di Maiolo, F.; Painelli, A. ET-F_2TCNQ: vibrationally pumped optical spectra, 8th European Symposium on Computing π-Conjugated Compounds (C-π-C 2017), Malaga, Spain, January 27-28, 2017.

6 Di Maiolo, F.; Painelli, A. ET-F_2TCNQ: vibrationally pumped optical spectra, Molecular Properties and Computational Spectroscopy: from Esoteric Effects to Novel Probing Tools (MPCS 2017), Pisa, Italy, April 10-12, 2017.

7 Di Maiolo, F.; Masino, M.; Painelli, A. ET-F_2TCNQ: vibrationally pumped optical spectra, Nano2Fun Final Conference, Parma, Italy, May 10-12, 2017.

8 Pieroni, C.; Di Maiolo, F.; Painelli, A. Intermolecular Energy Transfer in Real Time, Nano2Fun Final Conference, Parma, Italy, May 10-12, 2017.

9 Di Maiolo, F.; Painelli, A. Intermolecular Energy Transfer in Real Time, Conference on the Complex Interactions of Light and Biological Matter: Experiments meet Theory, Abdus Salam International Centre for Theoretical Physics, Miramare, Trieste, Italy, May 21-25, 2018.

10 Di Maiolo, F.; Painelli, A. Intermolecular Energy Transfer in Real Time, QuEBS 2018: Workshop on Quantum Effects in Biological Systems, Vilnius, Lithuania, July 10-13, 2018.

11 Di Maiolo, F.; Burghardt, I. Quantum Molecular Dynamics in Out of Equilibrium Environments: Redfield-Smoluchowski and Hydrodynamic Approaches, 57th Symposium on Theoretical Chemistry (STC 2021), online event, September 20-24, 2021.

12 Di Maiolo, F.; Burghardt, I.; Painelli, A. Quantum Molecular Dynamics in Out of Equilibrium Environments: Redfield-Smoluchowski and Hydrodynamic Approaches, XXVI Convegno Nazionale di Fisica Statistica e dei Sistemi Complessi, Parma, Italy, June 20-22, 2022.

13 Di Maiolo, F.; Burghardt, I.; Painelli, A. Quantum Molecular Dynamics in Out of Equilibrium Environments: Redfield-Smoluchowski and Hydrodynamic Approaches, XLVIII Congresso Nazionale di Chimica Fisica, Genova, Italy, July 4-7, 2022.

14 Di Maiolo, F.; Bedogni, M.; Painelli, A. Harvesting triplet excitons in TADF emitters with negative singlet-triplet gap: The path towards highly efficient OLEDs, XLVIII Congresso Nazionale di Chimica Fisica, Genova, Italy, July 4-7, 2022.

15 Di Maiolo, F.; Bedogni, M.; Giavazzi, D.; Painelli, A. Shining light on inverted singlet-triplet emitters, 13th International Conference on Excitonic and Photonic Processes in Condensed Matter and Nano Materials (EXCON23), Santa Fe, New Mexico, USA, October 23-26, 2023.

Editor and Referee activity

- Member of the Editorial Board of Frontiers in Chemistry. In particular, Di Maiolo is Review Editor for the Theoretical and Computational Chemistry specialty section of Frontiers in Chemistry.

- Referee for the following journals:
  - Nature Communications;
  - Journal of the American Chemical Society;
  - NPJ Computational Materials;
  - Advanced Optical Materials;
  - ACS Applied Materials & Interfaces;
  - Journal of Materials Chemistry C;
  - Communications Chemistry;
  - Journal of Chemical Theory and Computation;
  - Digital Discovery;
  - Journal of Physical Chemistry;
  - Physical Chemistry Chemical Physics;
  - The Journal of Chemical Physics;
  - The European Physical Journal B.

Teaching

- Doctoral School in Chemical Sciences "Metodi Computazionali in Chimica" (2025-2026, Settore scientifico disciplinare Chimica fisica (CHEM-02/A)) at Parma University, Parma, Italy. Di Maiolo is "docente titolare del corso".
- Chemistry master's degree course "Computational Chemistry" (2025-2026, Settore scientifico disciplinare Chimica fisica (CHEM-02/A)) at Parma University, Parma, Italy. Di Maiolo is "docente titolare del corso".
- Chemistry bachelor's degree course "Energia e transizione ecologica, oltre i miti la scienza" (2022-2025, Settore scientifico disciplinare Chimica fisica (CHEM-02/A)) at Parma University, Parma, Italy. Di Maiolo is "docente titolare del corso".
- Chemistry bachelor's degree course "Elementi di programmazione in Chimica" (2024-2025, Settore scientifico disciplinare Chimica fisica (CHEM-02/A)) at Parma University, Parma, Italy. Di Maiolo is "codocente del corso" together with Andrea Lapini.
- Materials Science bachelor's degree course "CHIMICA FISICA DEI MATERIALI CON LABORATORIO" (2022-2025, Settore scientifico disciplinare Chimica fisica (CHEM-02/A)) at Parma University, Parma, Italy. Di Maiolo is "codocente del corso" together with Cristina Sissa and Anna Painelli.
- Master's degree course "Aktuelle Themen der Physikalischen und Theoretischen Chemie" (Wintersemester, 2020-2021, exercise sessions & exams) at Goethe University, Frankfurt am Main.
- "Cultore della Materia" Settore Scientifico-Disciplinare CHIM/02 at Parma University. Thanks to this title, Di Maiolo was a member of the commission for Physical Chemistry exams from July 2018 to September 2019.

Mentoring

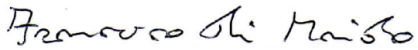
- Di Maiolo has supervised 5 Bachelor's thesis in Chemistry and 2 Master's thesis in Chemistry. Di Maiolo co-supervised 1 PhD student and is co-supervising 2 PhD students.

Departmental Service

2025-present Responsabile Assicurazione Qualità (RAQ) for the Master's degree in Chemistry, SCVSA Department, Parma University.

2026-present Member of the "Comitato Scientifico 03 – Scienze Chimiche e Farmaceutiche", Parma University.

2023-present Member of the organizing committee for the International Researchers Night, SCVSA Department, Parma University.

November 3, 2026 

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