

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di valutazione per la chiamata a professore di I fascia da ricoprire ai sensi dell'art. 24, comma 6, della Legge n. 240/2010 per il settore concorsuale 03/B1 - Fondamenti delle Scienze Chimiche e Sistemi Inorganici, (settore scientifico-disciplinare CHIM/03 - Chimica Generale ed Inorganica) presso il Dipartimento di CHIMICA, Codice concorso 4360

Emma Gallo

CURRICULUM VITAE

INFORMAZIONI PERSONALI

COGNOME	GALLO
NOME	EMMA
DATA DI NASCITA	27 AGOSTO 1964



UNIVERSITÀ DEGLI STUDI DI MILANO

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Personal details	Place of birth: Naples (Italy) Nationality: Italian. Marital Status: married, two sons.
Present position	Associate Professor at the University of Milan (Italy)
Education	PhD in Chemistry “avec les félicitations du jury”, University of Lausanne (CH) (supervisor: Prof. C. Floriani). Degree in Chemistry and Pharmaceutical Technologies “cum Laude”, University of Rome.
Professional experience	2019-present: Coordinator of Organometallic Catalysis of the Departmental ‘Laboratory of Homogeneous Catalysis for Sustainable Synthesis’ (http://www.lcs.unimi.it/), Chemistry Department of the University of Milan (I). 2013 and 2017: National Academic Qualification as Full Professor (Abilitazione Nazionale). 2007: Visiting Professor at the Chemistry Department of the University Pierre et Marie Curie Paris VI (France), 30 days. 2005-present: Associate Professor at the Chemistry Department of the University of Milan (I). 2001-2004: Assistant Professor at the Department of Inorganic, Metalorganic and Analytical Chemistry of the University of Milan (I). 1998-2001: Associate Researcher at the Department of Inorganic, Metalorganic and Analytical Chemistry of the University of Milan (I). 1997: Post-doctoral Fellowship at the Department of Inorganic, Metalorganic and Analytical Chemistry of the University of Milan (I). 1996: “Maître Assistant” at Department of Chemistry of the University of Lausanne (CH). 1990: Visiting Researcher of the Organic Chemistry Department of the University of Milan (I) (supervisor: Prof. C. Scolastico). 1989: Industrial Researcher at Sigma Tau S.p.A. - Pomezia (Rome) (I).
Grants	2020: Research project titled “Lo studio, l’elaborazione e la realizzazione di molecole sensibili per composti gassosi e in particolare per la formaldeide”. BRIC 2018 – ID05 by INAIL, in collaboration with Università degli Studi Roma Tor Vergata (€ 35.000 PI of the UNIMI unit, Numero di Protocollo: 0024134/20; Data Protocollo: 09/03/2020) 2019: Research project commissioned by ECOSFERA S.r.l. titled “Studio delle caratteristiche

	<p>chimiche di materiale polimerico proveniente da scarti di produzione.” (€ 8.000, PI, Progressivo: 0034716/19, Data Progressivo: 22/10/2019)</p> <p>2017: Research project titled “Electronic Nose to Detect Haoanisoles in Cork Stoppers 2.0” ENCORK 2.0 Project by Regione Lazio in collaboration with Università degli Studi Roma Tor Vergata (€ 20.000 sub-contractor).</p> <p>2017: “Transition Grant 2015/2017 – Horizon 2020” Linea 1A Progetto “Unimi Partenariati H2020” (€ 5.000, PI, Progressivo: 0022957/18, Data Progressivo: 24/07/2018).</p> <p>2015: Piano Sostegno alla Ricerca 2015-17 -LINEA 2 Azione B (Ricerche Interdisciplinari). (€ 8.000, PI)</p> <p>2013: PRIN 2010JMAZML_003 (participant)</p> <p>2012: ESF-COST CM1203/2012, Polyoxometalate Chemistry for Molecular Nanoscience, PoCheMoN (participant).</p> <p>2007: Galileo Grant, Italian-French University (€ 5.500, PI)</p> <p>2007: PRIN 2007HMTJWP_004 (participant)</p> <p>2005: PRIN 2005035123_002 (participant)</p> <p>2003: PRIN 2003 2003033857_002 (participant)</p> <p>2003: FIRB RBNE03JCR5 (€ 298.483, participant)</p> <p>E. Gallo received high scores for the following European H2020 proposals:</p> <p>2018: FETOPEN-RIA- From Fossil to Sun-Powered Conversion of N₂ into Natural Products: a Resonant IR Artificial Nitrogenase (STUN₂ING). Proposal number: 829199. Evaluation Result: Total score: 4.40/5.00.</p> <p>2017: MSCA-ITN-ETN: From Fossil to Solar-powered Production of Natural Products: a Training Network Fixing N₂ Into Amino Acids And Proteins (STUN₂ING). Proposal number: 766185. Evaluation Result: Total score: 85.20% (Threshold: 70/100.00)</p> <p>2017: MSCA-IF-GF: Biocatalysts for CO₂ Use In Multi-step Environmental Syntheses (BIO-CO₂MES). Proposal number: 796112. Evaluation Result: Total score: 85.40% (Threshold: 70/100.00). The project received the “Seal of Excellence” by an international panel of independent experts as ‘a high-quality project proposal in a highly competitive evaluation process’.</p>
Institutional experience	<p>2019-present: Coordinator of Department Board of Didactic Laboratories of the Chemistry Department, University of Milan.</p> <p>2019-present: Member of the Committee for International Programmes and Mobility of Milan University (Rectoral Decree) Chaired by the Deputy Rector for Internationalization.</p> <p>2015-present: Vice-President of the Inorganic Division of the Italian Chemical Society (SCI).</p> <p>2015-2019: Coordinator of Internalization Programs (Erasmus+ for Learning, Erasmus Traineeship, Erasmus+ Staff Mobility for Teaching, Exchange/outside EU) for the Chemistry Department, University of Milan.</p> <p>2012-2019: Member of Department Board of Didactic Laboratories of the Chemistry Department, University of Milan.</p> <p>2010-2015: Member of Department Board of Internalization Programs of the Chemistry Department, University of Milan.</p> <p>2010-present: Member of the Departmental PhD Study Committee of the Doctoral Programme in Chemistry of the Chemistry Department, University of Milan..</p> <p>2008-2017: Secretary of the Didactic Board of the Chemistry Department of the University of Milan (I).</p>
Dissemination activity	<p>2002-2007: Member of Department Board of “Commissione Orientamento”, of the Chemistry Department, University of Milan.</p> <p>2002: Member of the Organizing Committee of the show “La Magia della Chimica” in collaboration with Federchimica for the dissemination of the chemical culture to students of secondary schools and their teachers.</p>
Editorial activities	<p>2020: Guest Editor with prof. Dorota Gryco (Polish Academy of Sciences, Warsaw) of the Special Issue “Porphyrinoid-catalyzed transformations” on <i>Journal of Porphyrins and Phthalocyanines</i> (World Scientific Publishing Co Pte Ltd). The issue will be published in 2021.</p> <p>2020: Guest Editor with prof. Anna Proust (Sorbonne Université, Paris, France) and Prof. Claudio Pettinari (Università di Camerino) of a Special Issue to celebrate the 44th International Conference on Coordination Chemistry (ICCC2021) on <i>European Journal of Inorganic Chemistry</i> (Wiley). The issue will be published in 2021.</p> <p>2020: Italian Translation of one chapter of the book: “Chemistry, a Molecular Approach, 3rd edition”</p>

	<p>by Tro, Nivaldo J. for EDISES</p> <p>2019-present: International Advisory Board of <i>European Journal of Inorganic Chemistry</i> https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/ejic.201901088</p> <p>2019-present: Editorial Board of <i>Journal of Porphyrins and Phthalocyanines</i> https://www.worldscientific.com/page/jpp/editorial-board</p> <p>2019-present: International Advisory Board of <i>Molecules</i>. https://www.mdpi.com/journal/molecules/sectioneditors/organometallic_chemistry</p> <p>2018-present: Editorial Board of <i>Heteroatom Chemistry</i> https://www.hindawi.com/journals/htrc/editors/</p> <p>2016: Italian Translation of three chapters of the book: "Chemistry, a Molecular Approach, 1st edition" by Tro, Nivaldo J. for EDISES.</p>
Organization of conferences	<p>2021: Congresso Nazionale SCI 2021, Delegato della Divisione di Chimica Inorganica della Società Chimica Italiana, Milan (I).</p> <p>2021: 44th International Conference on Coordination Chemistry - ICCS 2021, Rimini (I).</p> <p>2019: XLVII Congresso Nazionale di Chimica Inorganica, Bari (I).</p> <p>2018: Incontro Università, CNR e Industria, Milan (I).</p> <p>2018: National Advisory Board of XXVIII International Conference on Organometallic Chemistry (ICOMC 2018), Florence (I).</p> <p>2018: XLVI Congresso Nazionale di Chimica Inorganica, Bologna (I).</p> <p>2016: XLIV Congresso Nazionale di Chimica Inorganica. Padua (I).</p> <p>2015: XLIII Congresso Nazionale di Chimica Inorganica. Camerino (I).</p> <p>2015: The Italian Meeting on Porphyrins and Phthalocyanines-2. Rome (I).</p> <p>2014: Symposium 'Sustainable Chemical Processes Catalyzed by Metal Porphyrins and Phthalocyanines' at the International Conference on Porphyrins and Phthalocyanines (ICPP-8) Istanbul (Turkey).</p> <p>2013: The Italian Meeting on Porphyrins and Phthalocyanines-1. Rome (I).</p>
Conference invited speaker	<p>2022: 'Ruthenium bis(imido) porphyrin complexes: powerful catalysts for the synthesis of heterocyclic compounds' 8th EuChemS Chemistry Congress (ECC8), Lisbon (P).</p> <p>2022: 'Activity of Porphyrin Catalysts in Promoting the Formation of Biologically Relevant Heterocyclic Compounds' Eleventh International Conference on Porphyrins and Phthalocyanines (ICPP-11), Buffalo New York (USA).</p> <p>2020: 'Synthesis of Heterocyclic Compounds by Ruthenium-Catalyzed Nitrene Transfer Reactions to Unsaturated Hydrocarbons' The 3rd Symposium of Metal-Carbene Consortium, San Antonio (USA).</p> <p>2018: 'Unsymmetrical meso-Substituted Porphyrins: from Catalysts to Chemosensors' Tenth International Conference on Porphyrins and Phthalocyanines (ICPP-10), Munich (D).</p> <p>2018: 'Metal Porphyrin Complexes: Smart Catalysts to Promote Alkene Cyclopropanations' The 2nd Symposium of Metal-Carbene Consortium, Beijing (CN).</p> <p>2016: 'Totem' C₂-Symmetrical Iron(III) Porphyrin Complexes to Stereoselectively Promote Alkene Cyclopropanation' Ninth International Conference on Porphyrins and Phthalocyanines (ICPP-9), Nanjing (CN).</p> <p>2016: 'Metal Porphyrin Complexes: Smart Catalysts for Eco-Friendly Chemical Processes' 6th EuChemS Chemistry Congress (ECC6), Seville (E)</p> <p>2016: 'Totem' C₂ Symmetrical Iron(III) Porphyrin Complexes to Stereoselectively Promote the Alkene Cyclopropanation' 229th ECS Meeting, San Diego (USA)</p> <p>2015: 'Synthesis of Biologically Relevant Compounds Catalysed By Metal Porphyrin Complexes' 227th ECS Meeting, Chicago, Illinois (USA)</p> <p>2014: 'Highly Diastereoselective Cyclopropanation of Olefins Catalysed by a C₂-Symmetrical Chiral Iron Porphyrin Complex' Eight International Conference on Porphyrins and Phthalocyanines (ICPP-8), Istanbul (TR)</p> <p>2014: 'Highly Diastereoselective Cyclopropanation of Olefins Catalysed by a C₂-Symmetrical Chiral Iron Porphyrin Complex' 225th ECS meeting, Orlando Florida (USA)</p> <p>2013: 'Ruthenium Porphyrin Complexes: Powerful Catalysts For Hydrocarbon Atom-Efficient Aminations' 223rd ECS Meeting, Toronto (CA)</p> <p>2012: "Putting the Pieces Together". A Mechanistic Insight into the C-N Bond Formation Catalysed by Ruthenium Porphyrin Complexes' Seventh International Conference on</p>

	<p>Porphyrins and Phthalocyanines (ICPP-7), Jeju (KR).</p> <p>2010: 'Polyoxometalates: Powerfull Catalystsf Atom-Efficient Cyclopropanations' 9th COGICO-Conferenza del Gruppo Interdivisionale di Chimica Organometallica, Firenze (I)</p> <p>2010: 'Amination of C-H Bonds by Metal Porphyrins Catalysed Nitrene Transfer Reaction' Sixth International Conference on Porphyrins and Phthalocyanines (ICPP-6), New Mexico (USA)</p> <p>2006: 'Recent Advances in the Amination of Olefins by Arylazides Catalyzed by Ruthenium Porphyrin Complexes' Fourth International Conference of Porphyrins and Phthalocyanines (ICPP-4), Rome (I)</p>
Awards	<p>2018: Travel Awards Winner for the best oral presentation at Tenth International Conference on Porphyrins and Phthalocyanines (ICPP-10), Munich (D).</p>
Supervisor of students who received awards	<p>2018: D. M. Carminati, prize for the best PhD thesis in Inorganic Chemistry awarded by the Inorganic Division of the Italian Chemical Society.</p> <p>2018: S. Grassi, Premio di Laurea "Marinella Ferrari" 2018 awarded by Rotary Club Milano.</p> <p>2017: C. Damiano, Poster Prize, 11th International School of Organometallic Chemistry (ISOC 2017).</p> <p>2014: D. M. Carminati, GIC Award XXIX edition awarded by Interdivisional group of Catalysis (GIC) of the Italian Chemical Society.</p> <p>2012: D. Intrieri, Dalton Transactions Poster Prize, "X Congresso del Gruppo Interdivisionale di Chimica Organometallica della Società Chimica Italiana".</p> <p>2011: D. Intrieri, XII Best Flash Presentation, the 8th International School of Organometallic Chemistry.</p> <p>2011: D. Intrieri, Dalton Transactions Poster Prize, 8th International School of Organometallic Chemistry.</p>
Teaching activities and seminars	<p><u>Teaching activities:</u></p> <p>2020-present: Lecturer 'Master Process Chemistry Applied to Active Pharmaceutical Ingredients' (2nd level vocational master), University of Milan (I), (6 h/year). (https://www.masterprochemapi.unimi.it/docenti.html),.</p> <p>2019: Doctoral Lecturer '12th International School of Organometallic Chemistry (ISOC)' Camerino (I) (2 h) (https://www.unicam.it/isoc/node/70)</p> <p>2013: Doctoral Lecturer "Nitrene Transfer Reactions Catalyzed by Transition Metal Complexes", PhD School in Chemistry, University of Milan (I) (2 h).</p> <p>2012-present: Lecturer 'Inorganic Chemistry A', 1st year of 'Laurea Magistrale in Scienze Chimiche', University of Milan (I) (48 h/year). Average of the teacher performance evaluation of the last three academic years: 9,48.</p> <p>2008-present: Lecturer 'General and Inorganic Chemistry', 1st year of 'Laurea triennale in Biotecnologia', University of Milan (I) (72 h/year). Average of the teacher performance evaluation of the last three academic years: 9,24.</p> <p>2008-2012: Lecturer 'Laboratorio Interdisciplinare di Biotecnologie di Base', 1st year of 'Laurea triennale in Biotecnologia', University of Milan (I) (32 h/year).</p> <p>2007: Doctoral Lecturer "Recent Advances in the Amination of Hydrocarbons by Arylazides Catalyzed by Porphyrin Complexes", Ecole Doctorale de Chimie Moléculaire de Paris Centre, University Pierre et Marie Curie Paris VI (F) (8 h).</p> <p>2003-2012: Lecturer, 'Laboratory of Inorganic Chemistry A', 1st year of 'Laurea Magistrale in Scienze Chimiche', University of Milan (I) (48 h/year).</p> <p>2003-2006: Teaching Assistant, 'Laboratory of Inorganic Chemistry and Materials', 2nd year of 'Laurea in Chimica', University of Milan (I) (48 h/year).</p> <p>2000-2003: Lecturer, 'Laboratory of Inorganic Chemistry II', 4th year of 'Laurea in Chimica', University of Milan (I) (48 h/year).</p> <p>1998-present: Supervisor of PhD, master and undergraduated students, University of Milan (I).</p> <p>1996: Supervisor of PhD students, University of Lausanne (Switzerland).</p> <p>1992-1996: Laboratory assistant to 1st and 3rd year undergraduate chemistry students, University of Lausanne (CH) (30 h/year).</p> <p><u>Seminars:</u></p> <p>2015: Doctoral seminar "Synthesis of Biologically Relevant Compounds Catalysed by Metal Porphyrin Complexes", University of Rennes (F) (2 h).</p> <p>2013: Doctoral seminar "The Amination of C-H Bonds by Ruthenium Porphyrins-Catalysed Nitrene Transfer Reaction. A Synthetic and Mechanistic Investigation", University of Leicester (UK) (1 h).</p>

	<p>2013: Departmental seminar “The Amination of Hydrocarbons by Nitrene Transfer Reactions Catalysed by Metal Porphyrin Complexes”, University of Padua (I) (1 h).</p> <p>2009: Doctoral seminar “The Amination of C-H Bonds by Metal Porphyrins-Catalysed Nitrene Transfer Reaction”, ETH Zurich (CH) (1 h).</p> <p>2009: Doctoral seminar “The Amination of C-H Bonds by Metal Porphyrins-Catalyzed Nitrene Transfer Reactions”, University Pierre et Marie Curie-Paris VI, Paris (F) (1 h).</p> <p>2005: Doctoral seminar “Recent Advances in the Amination of Hydrocarbons by Arylazides Catalyzed by Porphyrin Complexes”, University Pierre et Marie Curie Paris VI, Paris (F) (2 h)</p> <p>2005: Doctoral seminar “Recent Advances in the Amination of Hydrocarbons by Arylazides Catalyzed by Porphyrin Complexes”, Institut de Chimie Moléculaire et des Matériaux d'Orsay, University of Paris XI (F) (2 h)</p>
Tutoring activities	<p>-Tutor of <u>3 post-doc students</u> (Assegno di Ricerca di tipo A):</p> <ol style="list-style-type: none"> 1) 2020-2022: <i>Caterina Damiano</i> “Metal porphyrin complexes anchored on bio-waste cellulose: heterogeneous eco-compatible catalysts for the CO₂ activation”. 2) 2015-2019: <i>Daniela Intrieri</i> “Catalisi inorganica e organica: un perfetto sinergismo per promuovere trasformazioni organiche”. 3) 2005-2009: <i>Simone Fantauzzi</i> “Reazioni di formazione di legami carbonio-carbonio e carbonio-eteroatomo catalizzate da complessi di metalli di transizione con leganti macrociclici azotati”. <p>-Tutor of <u>5 PhD theses</u>:</p> <ol style="list-style-type: none"> 1) <i>Paolo Sonzini</i>, “Metal and free base porphyrins for CO₂ activation” Doctorate School in Chemical Sciences and Technology, Ph.D Course in Chemical Science, XXXIV Cycle, University of Milan. 2) <i>Caterina Damiano</i> ‘Hybrid Catalysts for Carbene and Nitrene Transfer Reactions’ Doctorate School in Chemical Science and Technologies, Ph.D Course in Chemical Science, XXXII Cycle, University of Milan. 3) <i>Daniela Maria Carminati</i>, “Metal Porphyrin Complexes: Smart Catalysts to Promote Eco-Friendly C-C and C-N Bond Formations” Doctorate School in Chemical Science and Technologies, Ph.D Course in Chemical Science, XXX Cycle, University of Milan. 4) <i>Paolo Zardi</i>, “Synthesis of Nitrogen-Containing Compounds via Nitrene-Transfer Catalysed by Porphyrin Complexes”, Doctorate School in Chemical Sciences and Technology, Ph.D Course in Industrial Chemistry, XXVII Cycle, University of Milan. 5) <i>Daniela Intrieri</i> “Synthesis, Characterization and Catalytic Activity of Iron, Ruthenium and Cobalt Porphyrin Complexes” Doctorate School in Chemical Science and Technologies, Ph.D Course in Chemical Science-XXVI Cycle, University of Milan. <p>-Co-tutor of <u>4 PhD theses</u>:</p> <ol style="list-style-type: none"> 1) <i>Gloria Zanchin</i>, “Insertion (co)polymerization of olefins catalyzed by first row transition metal complexes” Doctorate School in Chemical Science and Technologies, Ph.D Course in Chemical Science-XXXI Cycle, University of Milan. 2) <i>Tommaso Pedrazzini</i> “Modular Approach to chiral pyridine containing macrocycles: synthesis, characterization, reactivity and catalytic activity of their metal complexes” Doctorate School in Chemical Science and Technologies, Ph.D Course in Chemical Science-XXVII Cycle, University of Milan. 3) <i>Brunilde Castano</i> “Synthesis, characterization and catalytic activity of chiral tetraazamacrocyclic-Pc-L-Cu(I) and Ag(I) complexes” Doctorate School in Chemical Science and Technologies, Ph.D Course in Chemical Science-XXVI Cycle, University of Milan. 4) <i>Cristiana Piangiolino</i> “New C-O, C-C, C-N bonds formation in the synthesis of three membered rings catalyzed by porphyrin complexes of transition metals” Doctorate School in Chemical Science and Technologies, Ph.D Course in Chemical Science-XX Cycle, University of Milan. <p>-Tutor of 6 bachelor and 41 master theses.</p> <p>-Co-tutor of 9 bachelor theses, 16 master theses.</p> <p>-Degree Programme Tutor to help bachelor students in the organization of their study activities.</p>
Referee activities	<p>E. Gallo is a referee (https://publons.com/researcher/1398025/emma-gallo/) for:</p> <p><i>International Journals ISI</i> (Eur. J. Inorg. Chem.; Eur. J.; Org. Chem.; Adv. Synth. Catal.; Synlett; Organometallics; Dalton Trans.; Tetrahedron Lett.; Chemical Science; Chem. Comm.; J. Porph. Phthal.; Angew. Chem.; J. Am. Chem. Soc.;</p>

	<p>ChemCatChem; ACS Catal.; Chem. Eur. J.; Synlett; Appl. Catal. A; RSC Adv.; Chem. Asian J.; Inorg. Chem.; Tetrahedron; ChemSusChem; Org. Lett.; Cat. Lett.; New J. Chem.; Inorg. Chim. Acta; J. Catal.</p> <p><i>Research Grants</i> (Netherlands Organisation for Scientific Research (NWO), Università Italo Francese, University of Rome Tor Vergata, Research Grant Council (RGC) of Hong Kong, ARTI, l'Agenzia Regionale per la Tecnologia e l'Innovazione della Regione Puglia, Vici Grant)</p>
Selection board	<p>E. Gallo was member of the selection board for competitions and selection processes for electing technical staff, associate professors and researchers (RTDB and CNR researchers).</p> <p>2019: <i>RTDB 03/B1</i> – Fondamenti delle scienze chimiche e sistemi inorganici, SSD CHIM/03 – Chimica generale ed inorganica, University of Pavia (I).</p> <p>2018: <i>RTDB 03/B1</i> – Fondamenti delle scienze chimiche e sistemi inorganici, SSD CHIM/03 – Chimica generale ed inorganica, University of Bologna (I).</p> <p>2017: Concorso per un posto di Tecnico, categoria D, University of Milan (I).</p> <p>2017: <i>Associate professor 03/B1</i> – Fondamenti delle Scienze Chimiche e Sistemi Inorganici SSD CHIM/03 – Chimica Generale ed Inorganica, University of Insubria (I).</p> <p>2017: <i>Primo Ricercatore II livello professionale</i>, Strutture del Consiglio Nazionale delle Ricerche. Bando n. 367.173 PR - Area Strategica Chimica Verde e Processi Sostenibili.</p> <p>2014: <i>Associate professor 03/B1</i> – Fondamenti delle Scienze Chimiche e Sistemi Inorganici SSD CHIM/03 – Chimica Generale ed Inorganica, University of Trieste (I).</p>
External PhD Examiner	<p>2020: <i>Andrea Jouve</i>, University of Milan. Thesis Title: Valorisation of Biomass-derived Molecules by Noble Metal Catalysts” (supervisor prof. Laura Prati).</p> <p>2019: <i>Jordan Donat</i>, Université Grenoble Alpes. Thesis Title: “Macrocycles Tétracarbéniques de Fer: du Transfert de Nitrène aux Binucléaires Hétéroleptiques μ-Nitruro” (supervisor: prof. Jean-Marc Latour).</p> <p>2018: <i>Francesco Della Monica</i>, Università degli Studi di Salerno. Thesis Title: “Development of Iron-Based Catalysts for the Coupling of Carbon Dioxide with Epoxides” (supervisor: prof. Carmine Capacchione).</p> <p>2018: <i>Guillaume Coin</i>, Université Grenoble Alpes. Thesis Title: “Réactions de Transfert de Nitrene Catalysées par des Complexes de Fer: de la Compréhension des Mécanismes au Développement de Réactions Multiséquentielles” (supervisor: prof. Jean-Marc Latour).</p> <p>2018: <i>Wu Yuan</i>, The University of Hong Kong. Thesis Title: “Synthesis and Characterization of Ruthenium, Iron and Gold Porphyrin-Based Metal-Organic Frameworks (MOFs) and their Applications in Catalysis” (supervisor: prof. Chi-ming Che).</p> <p>2018: <i>Lucia Fagiolari</i>, Università di Perugia. Thesis Title: “M-Doped Hydrotalcite-Like Materials as Water Oxidation Heterogeneous Catalysts” (supervisor: prof. Alceo Macchioni).</p> <p>2018: <i>Andrea Savoldelli</i>, Università degli Studi Di Roma “Tor Vergata”. Thesis Title: “Progress in the field of pyrrole-based molecules: innovative syntheses and applications of corrole and BODIPY dyes”. (supervisor: Prof. Roberto Paolesse).</p> <p>2017: <i>Monalisha Goswami</i>, University of Amsterdam. Thesis title: “Open-Shell Nitrene- and Carbene-Complexes of Cobalt: Characterisation and Reactivity” (supervisor: prof. Bas de Bruin).</p> <p>2016: <i>Ernesto Santoro</i> Università degli Studi della Basilicata. Thesis Title: “Thioalkyl-Porphyrines for New Materials in Organic Photovoltaic Applications” (supervisor: prof. Sandra Belviso).</p> <p>2016: <i>Sofia Vailati Facchini</i>, Università degli Studi dell’Insubria. Thesis Title: “Synthesis and Characterization of (Cyclopentadienone)iron Tricarbonyl Complexes and their Application to Stereoselective Catalytic Transformations” (supervisor: prof. Umberto Piarulli).</p> <p>2013: <i>Lam Tsz Lung</i>, The University of Hong Kong. Thesis Title: “Iridium Porphyrin Complexes Containing Alkynyl, Carbene and Allenylidene Ligands” (supervisor: prof. Chi-ming Che).</p>
Membership	<p>Italian Chemical Society (SCI)</p> <p>Society of Porphyrins & Phthalocyanines (SPP)</p>

Scientific collaborations (in alphabetical order)	Prof. Maurizio Benaglia, Prof. Alessandra Puglisi (University of Milan, Italy) Dr. Bernard Boitrel (CNRS, Université de Rennes 1, France) Prof. Victor Borovkov (South-Central University for Nationalities, China) Prof. Carmine Capacchione (Università degli Studi di Salerno, Italy) Prof. Alessandro Caselli (University of Milan, Italy) Prof. Corrado Di Natale (University of Rome "Tor Vergata", Italy) Prof. Luigi Lay (University of Milan, Italy) Dr. Carlo Mealli, Dr. Gabriele Manca (ICCOM-CNR, Florence, Italy) Prof. Francesco Molinari (University of Milan, Italy) Prof. Roberto Paolesse (University of Rome "Tor Vergata", Italy) Prof. Anna Proust (Sorbonne University, France) Prof. Fabio Ragaini (University of Milan, Italy) Prof. Lucio Toma (University of Pavia, Italy)
Spoken languages	Italian (mother tongue), English (fluent) and French (fluent).

Research Interests (2000-present):

i) Synthesis of fine chemicals: the research activity is mainly devoted to the eco-compatible synthesis of fine chemicals by new C-C and C-N bond formations. Organic azides (ArN_3) and diazo-compounds ($\text{RR}'\text{CN}_2$) are employed as atom efficient reagents to transfer nitrene and carbene functionalities to saturated and unsaturated hydrocarbons, respectively. These synthetic procedures are responsible for the synthesis of aziridines, allylic amines, benzylic amines, imines, phenanthridines, indoles and cyclopropane-containing molecules. The scientific significance of these synthetic methodologies is due to: a) their high atomic efficiency and eco-sustainability (N_2 is the only by-product of the transfer reaction), and b) the method allows the transformation of low-cost compounds, such as hydrocarbons, into high-added value derivatives, which often exhibit biological and/or pharmaceutical properties. In addition, the transformation of highly "energetic" aziridines into fine-chemicals of a pharmaceutical interest, such as benzoazepines, has also been explored.

These synthetic transformations are efficiently catalysed by low-toxic metal porphyrin complexes, which show "green" transition metals of the first row as active catalytic centres. The chemo-physical behaviour of porphyrin catalysts can be easily fine-tuned by introducing eco-compatible functional groups such as amino acids and carbohydrates. In order to optimise synthetic strategies, catalytic mechanisms are investigated by identifying catalytic intermediates and performing kinetic and DFT studies. Cyclopropanes were also obtained with good enantio- and diastereoselectivities by employing chiral metal porphyrins as asymmetric catalysts.

ii) CO₂ valorisation: In order to contribute to the transition from linear to circular chemical processes, we are currently working on new synthetic routes, which employ CO₂ as a C1 renewable raw material to produce high added-value fine-chemicals, such as cyclic carbonates and oxazolidinones, which address different end-use customers. Besides the production of largely-used cyclic carbonate solvents (such as 1,2-butylene carbonate), the synthesis of oxazolidinones, which are precursors of pharmaceutical species (e.g. the medicinal activity of 5-(4-florophenyl)-3-(3-methoxyphenyl)-1,3-oxazolidin-2-one has been already demonstrated), has also been investigated. These transformations are efficiently promoted by low-cost and low-toxic porphyrin-based catalytic systems.

iii) Heterogenization of homogeneous catalysts: Metal porphyrin complexes can also be embedded in polymeric membranes to synthesise fine chemicals by using the continuous flow processing technology. The heterogenisation of homogeneous catalysts offers the advantages of both homogeneous and heterogeneous catalysis. In fact, benefits of a 'single site' catalysis are coupled with an easy recovery and recycling of the catalyst. Cyclopropanation reactions are also promoted by polyoxometalates (POMs) which are often presented as inorganic analogous of metalloporphyrins and show high chemical stability and synthetic potential. The syntheses of polyoxometalates allow structural modifications of their skeleton and the coordination of one or more catalytically active transition metals.

iv) Synthesis of chemosensors: More recently research has also moved towards the synthesis of metal porphyrin complexes to use them as high selective chemosensors for analysing the presence of emerging pollutants in water and air (such as diclofenac and formaldehyde, respectively) as well as of food contaminants (such as trichloroanisole, in "corked" wine). The chemical versatility of metal porphyrins allows several skeleton modifications and the introduction of a large class of transition metals into the porphyrin core. This synthetic approach permits modulation of the porphyrin structure with respect to the target analyte as well as fine-tuning the analyte/chemosensor interaction. In addition, the spectroscopic, photophysical and redox features of porphyrins and metal porphyrins allow the exploitation of different transduction mechanisms by the same sensing porphyrin materials, thus extending and increasing their sensing performance.

Chapters of books:

2.	D. Intrieri, D. M. Carminati, E. Gallo "Iron-catalysed Cyclopropanation of Alkenes by Carbene Transfer Reactions" <i>Non Noble Metal Catalysis: Molecular Approches and Reactions</i> , Ed. R. J. K. Gebbink, M.-E. Moret, Wiley-VCH publisher, ISBN: 978-3-527-34061-3
1.	D. Intrieri, D. M. Carminati, E. Gallo "Recent Advances in Metal Porphyrinoid-Catalyzed Nitrene and Carbene Transfer Reactions" <i>Handbook of Porphyrin Science</i> , Ed. K. M. S. Edited by Kadish, Kevin M.; Guillard, Roger, World Scientific Publishing Co. Pte. Ltd., 2016, vol. 38, pp. 1-99.

Publications:

E. Gallo (<https://orcid.org/0000-0002-2905-434X>) is the author of 103 publications (99 peer-reviewed, 3 revised versions submitted to journals and 1 manuscript in preparation. 18 Publications in the last five years and 20 invited papers), 4 invited covers and 80 communications at national and international conferences (22 invited oral presentations). Citations (Scopus 12/05/2020): 3928, h index: 34.

	Publications	IF pub. year	IF 2018	Scopus Citations 12/5/2020	Normalized Scopus Citations
103.	C. Damiano, P. Sonzini, E. Gallo* "Imido Complexes Active in Nitrene Transfer Reactions" <i>Manuscript in preparation (Invited)</i>				
102.	E. Casali, E. Gallo, L. Toma* "An In-depth Computational Study of Alkene Cyclopropanation Catalyzed by Fe(porphyrin)(OCH ₃) Complexes. The Environmental Effects on the Energy Barriers" <i>Revised version submitted to Inorg. Chem.</i>				
101.	P. Sonzini, C. Damiano, D. Intrieri, G. Manca,* E. Gallo* "A Metal-Free Synthesis of <i>N</i> -Aryl Oxazolidin-2-ones by the One-Pot Reaction of Carbon Dioxide with <i>N</i> -Aryl Aziridines" <i>Revised version submitted to Adv. Synth. Catal.</i>				
100.	C. Damiano, P. Sonzini, E. Gallo* "Iron Catalysts with <i>N</i> -Ligands for Carbene Transfer of Diazo Reagents" <i>Revised version submitted to Chem. Soc. Rev. (Invited)</i>				
99.	P. Sonzini, C. Damiano, D. Intrieri, E. Gallo* "Synthesis of Cyclic Carbonates by Ruthenium(VI) <i>Bis</i> -imido Porphyrin/TBACl-Catalysed Reaction of Epoxide with CO ₂ " <i>J. Porphyrins Phthalocyanines</i> 2019 , 23, 1 (<i>Invited</i>) DOI: 10.1142/S1088424619501888	1,292	1,292	-	-
98.	D. Intrieri, D. M. Carminati, P. Zardi, C. Damiano G. Manca,* E. Gallo,* C. Mealli "Indoles from Alkynes and Aryl Azides. Scope and Theoretical Assessment of Ruthenium Porphyrin-Catalyzed Reactions" <i>Chem. Eur. J.</i> 2019 , 25, 16591 (<i>VIP paper and Cover</i>) DOI: 10.1002/chem.201904224	5,160	5,160	1	0,5
97.	C. Damiano, S. Gadolini, D. Intrieri, L. Lay*, C. Colombo, E. Gallo* "Iron and Ruthenium Glyco-conjugated Porphyrins: Eco-friendly Catalytic Systems for the Synthesis of Cyclopropanes and Aziridines" <i>Eur. J. Inorg. Chem.</i> 2019 , 4412. DOI: 10.1002/ejic.201900829	2,578	2,578	1	0,5
96.	D. Intrieri, C. Damiano, P. Sonzini, E. Gallo* "Porphyrin-based homogeneous catalysts for the CO ₂ cycloaddition to epoxides and aziridines" <i>J. Porphyrins Phthalocyanines</i> 2019 , 23, 305. (<i>Invited special issue "Women in Porphyrin Science"</i>) DOI: 10.1142/S1088424619300015	1,217	1,292	1	0,5

95.	D. Carminati, E. Gallo,* C. Damiano, A. Caselli, D. Intrieri “Ruthenium Porphyrin-Catalyzed Synthesis of Oxazolidinones by Cycloaddition of CO ₂ to Aziridines” <i>Eur. J. Inorg. Chem.</i> 2018 , 5258. DOI: 10.1002/ejic.201801208	2,578	2,578	3	1
94.	D. Intrieri, C. Damiano, S. Rizzato, R. Paolesse, M. Venanzi, D. Monti,* M. Savioli, E. Gallo* “Sensing of Diclofenac by a Porphyrin-based Artificial Receptor” <i>New J. Chem.</i> 2018 , 42, 15778. DOI: 10.1039/c8nj02737d	3,201	3,069	-	-
93.	E. Gallo,* D. Intrieri “Iron(II) bromide” (2018) <i>e-EROS Encyclopedia of Reagents for Organic Synthesis</i> [Online], John Wiley & Sons Ltd. (Invited) DOI: 10.1002/047084289X.rm02188	-	-	-	-
92.	C. Damiano, D. Intrieri, E. Gallo* “Aziridination of Alkenes Promoted by Iron or Ruthenium Complexes” <i>Inorg. Chim. Acta.</i> 2018 , 470, 51. (Invited) DOI: 10.1016/j.ica.2017.06.032	2,002	2,433	13	4,33
91.	D. Intrieri,* S. Rossi,* A. Puglisi, E. Gallo “Metal-porphyrin Catalyzed Aziridination of α -Methylstyrene: Batch versus Flow Process” <i>J. Porphyrins Phthalocyanines</i> 2017 , 21, 381. (Invited) DOI: 10.1142/S1088424617500365	1,043	1,292	3	0,75
90.	D. M. Carminati, D. Intrieri, S. Le Gac, T. Roisnel, B. Boitrel,* L. Toma,* L. Legnani, E. Gallo* “Synthesis, Characterisation and Catalytic Use of Iron Porphyrin Amino Ester Conjugates” <i>New J. Chem.</i> 2017 , 41, 5950. DOI: 10.1039/c7nj01189j	3,269	3,069	5	1,25
89.	P. Zardi, D. Intrieri, D. M. Carminati, F. Ferretti, P. Macchi, E. Gallo* “Synthesis and Catalytic Activity of μ -Oxo Ruthenium(IV) Porphyrin Species to Promote Amination Reactions” <i>J. Porphyrins Phthalocyanines</i> 2016 , 20, 1156. (Invited) DOI: 10.1142/S1088424616500814	1,043	1,292	6	1,2
88.	S. Rossi, A. Puglisi,* D. Intrieri, E. Gallo* “From Anilines to Aziridines: a Two-step, Solvent-free Synthesis under Continuous-flow Conditions” <i>J. Flow Chem.</i> 2016 , 6, 234. DOI: 10.1556/1846.2016.00027	1,768	2,277	5	1
87.	G. Tseberlidis, M. Dell’Acqua, D. Valcarenghi, E. Gallo, E. Rossi, G. Abbiati,* A. Caselli* “Silver Comes into Play: Henry Reaction and Domino Cycloisomerisation Sequence Catalysed by [Ag(I)(Pc-L)] Complexes” <i>RSC Adv.</i> 2016 , 6, 97404. DOI: 10.1039/c6ra22231e	3,108	3,049	9	1,8
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84.	S. Rossi, A. Puglisi, M. Benaglia,* D. M. Carminati, D. Intrieri, E. Gallo “Synthesis in Mesoreactors: Ru(porphyrin)CO Catalyzed Aziridination of Olefins under Continuous Flow Conditions” <i>Catal. Sci. Technol.</i> 2016 , 6, 4700. DOI: 10.1039/c6cy00207b	5,773	5,726	7	1,4
83.	D. Intrieri, D. M. Carminati, E. Gallo* “Recent advances in C–H bond aminations catalyzed by ruthenium porphyrin complexes <i>J. Porphyrins Phthalocyanines</i> 2016 , 20, 190. (Invited) DOI: 10.1142/S1088424616500383	1,043	1,292	6	1,2
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77.	P. Zardi, A. Pozzoli, F. Ferretti, G. Manca,* C. Mealli, E. Gallo* “A Mechanistic Investigation of the Ruthenium Porphyrin Catalysed Aziridination of Olefins by Aryl Azides” <i>Dalton Trans.</i> 2015 , 44, 10479. DOI: 10.1039/c5dt00951k	4,177	4,052	18	3
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73.	D. Intrieri, P. Zardi, A. Caselli, E. Gallo* “Organic Azides: “Energetic Reagents” for the Intermolecular Amination of C–H Bonds” <i>Chem. Commun.</i> 2014 , 50, 11440. (Invited) DOI: 10.1039/c4cc03016h	6,834	6,164	129	18,43
72.	M. Trose, M. Dell’Acqua, T. Pedrazzini, V. Pirovano, E. Gallo, E. Rossi, A. Caselli,* G. Abbiati* “[Silver(I)(Pyridine-Containing Ligand)] Complexes as Unusual Catalysts for A3-Coupling Reactions” <i>J. Org. Chem.</i> 2014 , I, 7311. DOI: 10.1021/jo500981r	4,721	4,849	55	7,86
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70.	P. Zardi, A. Caselli, P. Macchi, F. Ferretti, E. Gallo* “Synthesis of Biologically Relevant Compounds by Ruthenium Porphyrin Catalyzed Amination of Benzylic C–H Bonds” <i>Organometallics</i> 2014 , 33, 2210. DOI: 10.1021/om500064d	4,126	4,100	18	2,57
69.	G. Manca,* E. Gallo*, D. Intrieri, C. Mealli “DFT Mechanistic Proposal of the Ruthenium Porphyrin-Catalyzed Allylic Amination by Organic Azides” <i>ACS Catal.</i> 2014 , 4, 823. DOI: 10.1021/cs4010375	9,312	12,221	35	5
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Data

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