



Date/place of birth 18/08/1987, Turin (Italy)

Sex Male

Nationality Italian

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Career and Education

Mar 2022 –

Full Professor @Politecnico di Torino

Chemical Foundations of Technologies [CHIM/07 – 03/B2]

Topics: Materials chemistry for energy conversion and storage (photovoltaics, batteries, supercapacitors); Electrochemical nitrogen reduction; Photopolymerization and UV-curing; Green, biosourced and waste-derived materials for energy; Applied chemometrics

Mar 2020 – Feb 2022 **Associate Professor** @Politecnico di Torino

Oct 2016 – Feb 2020 **Fixed-Time Researcher (RTD/A)** @Politecnico di Torino

Aug 2016 – Oct 2019 **Affiliated Researcher** @Italian Institute of Technology

Jan 2015 – Oct 2016 **Post-Doc Researcher** @Politecnico di Torino

Jan 2012 – Dec 2014 **PhD** in Electronic Devices @Italian Institute of Technology

Thesis defended on 02/03/2015 – rank: Excellent

Dec 2011 **State Examination** as Chemist @Università degli Studi di Torino

Sep 2011 – Dec 2011 **R&D** @Studio Chiono & Ass (Rivarolo Canavese, Italy)

Management of a pilot plant for the production of biogas and biosurfactants

Oct 2009 – Jul 2011 **MSc** in Industrial Chemistry @Università degli Studi di Torino

Thesis defended on 11/07/2011 – rank: 110/110 magna cum laude

Oct 2006 – Jul 2009 **BSc** in Industrial Chemistry @Università degli Studi di Torino

Thesis defended on 16/07/2009 – rank: 110/110 cum laude

Main institutional roles

Jan 2023 – Dec 2025 **Vice-President** of the Italian Chemical Society

Jan 2020 – Dec 2025 **Member of the International Relations Commission** of the Italian Chemical Society

Jan 2019 – Dec 2024 **Board Member** of the Industrial Chemistry Division of the Italian Chemical Society

Feb 2016 – Dec 2018 **Coordinator** of the Early-Career Group of the Italian Chemical Society
Also serving as Board Member of the Industrial Chemistry Division

See the [list](#) of other institutional roles of FB

Publications and journals

Score

103 peer-reviewed articles, 99 of which in ISI-indexed journals (see [list](#))

34 articles (33%) as first author

60 articles (58%) as corresponding author

15 articles (15%) as senior author

1 article as single author

63 articles (61%) published in Q1 quartile

69 articles (67%) published with IF > 5, 18 articles (17%) with IF > 10

h-index: 68

>8700 citations (Scopus, 30th July 2023)

Editorial roles

- **Chemical Engineering Journal** (ISSN: 1385-8947, IF 15.1, Elsevier)
Member of the Editorial Board, since August 2017
- **ACS Sustainable Chemistry & Engineering** (ISSN: 2168-0485, IF 8.4, American Chemical Society)
Member of the Early Career Board, since January 2021
- **ChemSusChem** (ISSN: 1864-564X, IF 8.4, John Wiley & Sons, Inc.)
Member of the International Advisory Board, since January 2020
- **Electrochimica Acta** (ISSN: 0013-4686, IF 6.6, Elsevier)
Guest Editor for 2 special issues: "69th Annual Meeting of the International Society of Electrochemistry" (2018), "Giornate dell'Elettrochimica Italiana - GEI 2018" (2018)
- **Polymers** (ISSN: 2073-4360, IF 5.0, MDPI AG)
Guest Editor for the special issue "Polymer-based Batteries" (2018)
- **Molecules** (ISSN: 1420-3049, IF 4.6, MDPI AG)
*Member of the Editorial Board, since July 2019
Guest Editor for the special issue "Challenges towards Upscaling and Stabilization of Perovskite Solar Cells" (2020)*
- **Heliyon** (ISSN: 2405-8440, IF 4.0, Elsevier)
Member of the Editorial Board, from February 2019 to September 2020
- **Materials Today Communications** (ISSN: 2352-4928, IF 3.8, Elsevier)
Member of the Editorial Board, since February 2022
- **Frontiers in Energy Research** (ISSN: 2296-598X, IF 3.4, Frontiers Media S.A.)
*Associate Editor, since April 2022
Review Editor, since June 2014*
- **Materials** (ISSN: 1996-1944, IF 3.4, MDPI AG)
*Section Editor-in-Chief, since October 2022
Member of the Editorial Board, since May 2016
Guest Editor for the special issues "Electrode Materials" (2015) and "15th Anniversary of Materials—Recent Advances in Energy Materials" (2023)*
- **Chemistry-Methods** (ISSN: 2628-9725, IF tbd, John Wiley & Sons, Inc.)
Member of the Editorial Board, since January 2020

- **Sci** (ISSN: 2413-4155, IF tbd, MDPI AG)
Member of the Advisory Board and of the Editorial Board, since September 2018
- **Challenges** (ISSN: 2078-1547, IF tbd, MDPI AG)
Member of the Advisory Board, since May 2020
- **Energy Materials** (ISSN: 2770-5900, IF tbd, OAE Publishing Inc.)
Advisory Editor, since August 2021
- **Ceylon Journal of Science** (ISSN: 2513-230X, IF tbd, University of Peradeniya)
Member of the International Editorial Advisory Board, since June 2022
- **La Chimica e L'Industria** (ISSN: 2283-544X, AGICOM srl)
Member of the Editorial Board, from December 2017 to December 2022

Research projects

Dec 2022 – Nov 2027	LOTUS – Lithium prOtecTion for robUst and Safe batteries <i>Project funded by the Ministry of University and Research (call “FARE Ricerca in Italia”)</i> <i>Principal investigator (299.750 EUR)</i> <i>Activity: development of lithium protection techniques for Li-S batteries</i>
Sep 2022 – Aug 2026	GIGAGREEN – Towards the sustainable giga-factory: developing green cell manufacturing processes <i>HE project (CL5, grant agreement n° 101069707)</i> <i>WP5 leader</i> <i>Activity: sustainable, safe, flexible and cost effective production of Li-ion batteries</i>
Jun 2022 – Nov 2023	AQUASUN – Aqueous photovoltaics as a new paradigm for solar energy conversion <i>Research project funded by PhosAgro/UNESCO/IUPAC</i> <i>Principal investigator (30.000 USD)</i> <i>Activity: development of aqueous solar cells</i>
Feb 2021 – Jan 2026	SuN₂rise – Solar driven electrochemical nitrogen fixation for ammonia refinery <i>H2020 project (ERC-StG, grant agreement n° 948769)</i> <i>Principal investigator (total grant: 1.498.750 EUR)</i> <i>Activity: materials and processes for the electrochemical nitrogen reduction powered by photovoltaics</i>
Oct 2020 – Sep 2023	SYNERGY – Symbiosis for energy harvesting concepts for smart platforms on foils <i>H2020 project (WIDESPREAD, grant agreement n° 952169)</i> <i>Principal investigator of PoliTO unit (total grant: 897.000 EUR)</i> <i>Activity: energy harvesting and micropower management as a key component towards self-sustainable smart platforms on flexible substrates</i>
Sep 2020 – Aug 2023	BATTERY 2030+ – Large-scale research initiative: at the heart of a connected green society <i>H2020 project (LC-BAT, grant agreement n° 957213)</i> <i>Scientific activity as Professor @PoliTO unit</i> <i>Activity: development of European curricula in battery technologies</i>

May 2020 – Apr 2024	HYDRA – Hybrid power-energy electrodes for next generation lithium-ion batteries <i>H2020 project (LC-BAT, grant agreement n° 875527)</i> <i>Scientific activity as Professor @PoliTO unit</i> <i><u>Activity:</u> development of cathodic materials for high-energy Li-ion batteries</i>
Jan 2019 – Jan 2023	Si-DRIVE – Silicon alloying anodes for high energy density batteries comprising lithium rich cathodes and safe ionic liquid based electrolytes for enhanced high voltage performance <i>H2020 project (LC-NMBP, grant agreement n° 814464)</i> <i>Scientific activity as Assistant Professor @PoliTO unit</i> <i><u>Activity:</u> development of polymer electrolytes based on ionic liquids for lithium ion batteries</i>
Oct – Dec 2018	2018 Annual Implementation Plan - Project C.5 "Energy storage systems for the electric system" <i>MiSE-ENEA Agreement on Electric System Research</i> <i>Scientific activity as Assistant Professor @PoliTO unit</i> <i><u>Activity:</u> improvement of interface and cycling at room temperature for sodium batteries</i>
Jan – Dec 2018	PEPETOC – Perovskite photovoltaics: experimental efforts towards commercialization <i>Research networking project funded by Massachusetts Institute of Technology (MITOR by MISTI call)</i> <i>Principal investigator of PoliTO unit (total grant: 20.000 USD)</i> <i><u>Activity:</u> scale-up of fabrication processes of perovskite solar cells</i>
Jan 2018 – Dec 2021	EnABLES – European infrastructure powering the internet of things <i>H2020 project (INFRAIA, grant agreement n° 730957)</i> <i>Scientific activity as Assistant Professor @PoliTO unit</i> <i><u>Activity:</u> development of polymer electrolytes and lab-scale devices in the lithium-ion battery framework</i>
Oct 2017 – Sep 2018	2017 Annual Implementation Plan - Project C.5 "Energy storage systems for the electric system" <i>MiSE-ENEA Agreement on Electric System Research</i> <i>Scientific activity as Assistant Professor @PoliTO unit</i> <i><u>Activity:</u> optimization of titanium dioxide nanotube electrode materials and optimization of safe and highly conductive polymeric electrolytes for sodium ion batteries</i>
Sep 2017 – Sep 2019	PEPPY – Perovskite photovoltaic by polymers <i>Research project funded by PoliTO / Compagnia di S. Paolo</i> <i>Principal investigator (150.000 EUR)</i> <i><u>Activity:</u> development of polymeric materials for perovskite solar cells</i>
Aug 2017 – Jul 2021	RECODE – Recycling carbon dioxide in the cement industry to produce added-value additives: a step towards a CO₂ circular economy <i>H2020 project (RIA, grant agreement n° 768583)</i> <i>Scientific activity as Assistant Professor @PoliTO unit</i> <i><u>Activity:</u> development of CO₂-derived cyclic carbonates and polycarbonates for Li-ion batteries electrolytes</i>
May 2017 – May 2018	Industrial contract with Solvay SA <i>Scientific activity as Assistant Professor</i>

	<i>Activity: feasibility study of using PFPE in solid polymer electrolyte composites for lithium batteries</i>
Oct 2016 – Sep 2017	2016 Annual Implementation Plan - Project C.5 "Energy storage systems for the electric system" <i>MiSE-ENEA Agreement on Electric System Research</i> <i>Scientific activity as Assistant Professor @PoliTO unit</i> <i>Activity: study of electrode materials based on titanium dioxide nanotubes and electrolytes for sodium ion batteries</i>
Jan – Oct 2016	NANOMAX <i>Ministerial Project ("Progetto Bandiera")</i> <i>Scientific activity as Post-Doc researcher</i> <i>Activity: development of materials for biological sensors</i>
Jul – Oct 2015	CARVOUR <i>Regional project (Det. n. 55 del 11/02/2013)</i> <i>Scientific activity as Post-Doc researcher</i> <i>Activity: development of active materials containing lithium compounds as a main element of a system for energy storage in vehicles</i>
Jan – Jun 2015	IDEA <i>Regional project (Det. n. 55 del 11/02/2013)</i> <i>Scientific activity as Post-Doc researcher</i> <i>Activity: electrochemical characterization of commercial Li-ion cells for hybrid diesel engines</i>
Sep 2012 – May 2014	Smash gaming <i>Regional project (POR. Piemonte 2007-2013)</i> <i>Scientific activity as PhD student</i> <i>Activity: development of a miniaturized sensor for the analysis and sensing of H₂S and other toxic gases by means of nanostructures integration</i>
Feb – Aug 2012	VERDE-PIEZO <i>Regional project (POR. Piemonte 2007-2013)</i> <i>Scientific activity as PhD student</i> <i>Activity: development of a lead-free piezoelectric material optimized for energy harvesting applications</i>

Awards and medals

Jun 2023	Tajima Prize Awarded by the International Society of Electrochemistry (1000 EUR) for contributions in the field of advanced photoelectrochemical cells and post-lithium batteries
Mar 2023	“2022 Outstanding Reviewer” Award Awarded by the Royal Society of Chemistry for the outstanding contribution is reviewing manuscripts for “Energy Advances” and “RSC Advances”
Dec 2022	Mentioned as one of the “Best Rising Stars of Science in Italy” 3 rd classified in Italy, 46 th in the world, in the first edition of this ranking promoted by Research.com
Sep 2022	Junior Prize for Scientific Research in “Organic chemistry for environment, energy and nanoscience” Awarded by the Organic Chemistry Division of Società Chimica Italiana

Dec 2021	“Italia Giovane” Prize <i>Special mention to the personal and professional experience as a positive example of prestige to the country and a strong stimulus for the new generations</i>
Nov 2021	USERN Prize <i>Awarded by the Universal Scientific Education and Research Network (5000 USD) for contributions in the field of biological sciences (mimicking nitrogenases); 10000 eligible candidates were nominated for this award and the jury also included previous Nobel awardees</i>
Ott 2021	“Giorgio Squinzi” Medal <i>Award assigned by Società Chimica Italiana to an under-45 researcher, author of contributions of particular scientific, innovative or applicative importance, in the field of industrial chemistry</i>
Jul 2021	ISE Prize for Electrochemical Materials Science <i>Awarded by the International Society of Electrochemistry (1000 EUR) for contributions in the field of electrochemical material science, including corrosion, electrodeposition and surface treatment</i>
May 2021	“2022 Emerging Investigators” Award <i>Awarded by the Royal Society of Chemistry for the activity in the field of nanoscience and nanotechnology, with a mention included in the “Nanoscale”</i>
Apr 2021	Environment, Sustainability & Energy Division Horizon Prize <i>Awarded by the Royal Society of Chemistry to recognise significant recent novel discoveries or advances made in the area of environment, sustainability and energy</i>
Feb 2021	“2020 Outstanding Reviewer” Award <i>Awarded by the Royal Society of Chemistry for the outstanding contribution is reviewing manuscripts for “RSC Advances”</i>
Jan 2021	“Coatings” Travel Award <i>Awarded by MDPI (800 CHF) for the activity carried out in the field of polymeric coatings for applications in the energy field</i>
Dec 2020	“2021 Emerging Investigators” Award <i>Awarded by the Royal Society of Chemistry for the activity in the field of materials chemistry for energy and sustainability, with a mention included in the “Journal of Materials Chemistry A”</i>
Oct 2020	One of the 100,000 most cited scientists across all scientific disciplines <i>Accordingly to the “Updated science-wide author databases of standardized citation indicators” published by PLoS Biol 18 (2020) art. no. e3000918</i>
Oct 2020	“Ivano Bertini” Medal <i>Award assigned by Società Chimica Italiana to an under-40 researcher, author of particularly significant and innovative contributions in the Chemical Sciences field</i>
Apr 2020	“2019 Outstanding Reviewer” Award <i>Awarded by the Royal Society of Chemistry for the outstanding contribution is reviewing manuscripts for “Photochemical & Photobiological Sciences”</i>
Oct 2019	“Coatings” Young Investigator Award <i>Awarded by MDPI (2000 CHF) for the significant contribution to the advancement of an important area in the field of coatings</i>

- Jun 2019 **International award “Roberto Piontelli”**
Prize awarded by Accademia Nazionale dei Lincei (5000 EUR) for the scientific contribution in the field of electrochemistry for energy. The President of the Italian Republic presides over the award ceremony
- Apr 2019 **Environment, Sustainability & Energy Division Early Career Award**
Awarded by the Royal Society of Chemistry for the inventive development of photoinduced polymerization strategies for solar cells and batteries (2000 GBP)
- Mar 2019 **Special contribution Award**
Awarded by the European Young Chemists’ Network (youth division of the European Chemical Society) for the personal involvement in organizing activities for young chemists
- Nov 2018 **“2018 Outstanding Reviewer” Award**
Awarded by Elsevier for the outstanding contribution in reviewing manuscripts for these journals: “Chemical Engineering Journal”, “European Polymer Journal”, “Heliyon”, “Journal of Alloys and Compounds”, “Journal of Industrial and Engineering Chemistry”, “Journal of Photochemistry & Photobiology, A Chemistry”, “Journal of Physics and Chemistry of Solids”, “Journal of Power Sources”, “Materials Chemistry and Physics”, “Materials Letters”, “Nano Energy”
- Nov 2018 **“2018 Outstanding Reviewer” Award**
Awarded by Springer Nature for the outstanding contribution in reviewing manuscripts for “Energy, Ecology & Environment”
- Nov 2017 **“2017 Outstanding Reviewer” Award**
Awarded by Elsevier for the outstanding contribution in reviewing manuscripts for these journals: “Electrochemistry Communications”, “Electrochimica Acta”, “Industrial Crops & Products”, “International Journal of Hydrogen Energy”, “Materials Science & Engineering B”, “Materials Science in Semiconductor Processing”, “Microporous and Mesoporous Materials”, “Organic Electronics”, “Physica B: Physics of Condensed Matter”, “Solar Energy”
- Jun 2017 **ISE-Elsevier Prize for Applied Electrochemistry**
Awarded by the International Society of Electrochemistry (2000 EUR) in recognition of the outstanding achievements in the field of solar cells and batteries
- May 2017 **Ranked 1st in the “Top Young Scientists” chart by VIA-Academy**
First classified among young people of all nationalities who have started working in the research world in Italy, Germany and United Kingdom over the last five years
- Apr 2017 **Electrochimica Acta Travel Award for Young Electrochemists**
1st classified over 40 candidates, awarded (1000 EUR) by the International Society of Electrochemistry for the research quality in the field of Electrochemistry
- Jan 2017 **Innovazione Leonardo Award**
1st classified over 700 candidates, awarded (3000 EUR) for the valorization of talent and ideas in view of the contact with the business world. The Minister of Education, University and Research presides over the award ceremony
- Oct 2016 **“2016 Outstanding Reviewer” Award**
Awarded by Elsevier for the outstanding contribution in reviewing manuscripts for these journals: “Applied Surface Science”, “Arabian Journal of Chemistry”, “Chemical Engineering Journal”, “Journal of Alloys and Compounds”, “Journal of

	<i>Power Sources”, “Materials Chemistry and Physics”</i>
Oct 2016	Electron Devices PhD Program: Prize for the Best 2015 Thesis <i>Awarded by Politecnico di Torino (2500 EUR)</i>
Sep 2016	“Royal Society of Chemistry – Materials Horizons” Award <i>For the best oral presentation in the field of Materials Science during the 6th EuCheMS Chemistry Congress, Seville (Spain)</i>
Sep 2016	Special Mention at “European Young Chemist Award 2016” <i>Prize awarded by the Asociaciòn Nacional de Quimicos de España (500 EUR) to the talk given in the final of the European Young Chemist Award 2016</i>
Jun 2016	ENI Award – Debut in Research <i>Prize awarded by ENI company (25000 EUR) to the best PhD Thesis in the field of Renewable Energy. The President of the Italian Republic presides over the award ceremony</i>
Jun 2016	“2015 Outstanding Reviewer” Award <i>Awarded by the international scientific journal “Solar Energy Materials and Solar Cells” (edited by Elsevier) as the best referee among 2000 others</i>
May 2016	Silver medal at “GiovedìScienza Prize” (5th Edition) <i>Ranked 2nd among the Top-10 under-35 researchers of Piedmont, Lombardy and Liguria regions</i>
May 2016	“MiPiace (I like it!) Award” @ “GiovedìScienza Prize” (5th Edition) <i>For the best scientific communication, awarded by the popular jury during the final among the 10 best under-35 researchers of Piedmont, Lombardy and Liguria regions</i>
Mar 2016	Sapienza Junior Prize for Research and Innovation <i>Prize awarded by Sapienza company (15000 EUR) to the best under-30 Italian researcher who stands out for his scientific studies and research. The award ceremony took place in the Parliament of the Italian Republic</i>
Dec 2015	Junior Researcher “ENERCHEM-1 2016” Prize <i>Best Italian under-35 researcher for contributions of particular interest in the field of Chemistry of Renewable Energies</i>
May 2015	Best Italian PhD Thesis in Electrochemistry <i>Awarded by Italian Chemical Society (1000 EUR)</i>
Apr 2015	Finalist of the “GiovedìScienza Prize” (4th Edition) <i>Ranked in the Top-10 chart of under-35 researchers of Piedmont (Italy)</i>
Sep 2014	Best talk <i>Macrogiovani @ XXI Congress of the Italian Association of Science and Technology of Macromolecules, Turin (Italy)</i>
Oct 2013	Best talk <i>13° Sigma Aldrich Young Chemists Symposium (SAYCS), Riccione (Italy)</i>
Jun 2013	Best 2011 MSc Thesis in Industrial Chemistry <i>Awarded by Università degli Studi di Torino</i>
Sep 2012	Premio Optime <i>Best MSc graduated in Industrial Chemistry @ Università degli Studi di Torino</i>
Sep 2010	Menzione Optime <i>Best BSc graduated in Industrial Chemistry @ Università degli Studi di Torino</i>

Dec 2009

“Botta&Risposta” Award (Università degli Studi di Torino)
2000 EUR for the development of an academic social network

Publications-related awards

- **Among the most popular 2022 articles in “Journal of Materials Chemistry A” (2023)**
Publication awarded: J. Mater. Chem. A 10 (2022) 12588-12596
- **“Polymers” Best Paper Award (2023)**
Publication awarded: Polymers 13 (2021) art. no. 1625
- **“Advanced Sustainable Systems” Top Downloaded Article (2023)**
Publication awarded: Adv. Sustain. Syst. 6 (2022) art. no. 2100228
- **“Advanced Sustainable Systems” Top Cited Article 2021-2022 (2023)**
Publication awarded: Adv. Sustain. Syst. 5 (2021) art. no. 2100025
- **“ChemSusChem” Top Cited Article 2020-2021 (2022)**
Publication awarded: ChemSusChem 13 (2020) 6562-6573
- **“Nanomaterials” Highly Cited Paper (2022)**
Publication awarded: Nanomaterials 10 (2020) art. no. 1585
- **Top 1% across Royal Society of Chemistry journals in terms of citations in 2020 (2021)**
Publication awarded: Energy Environ. Sci. 12 (2019) 3437-3472
- **“Green Chemistry” Hot Articles (2020)**
Publication awarded: Green Chem. 22 (2020) 7168-7218, as decided by the editor
- **“Top downloaded article” in “Chemistry – A European Journal” (2020)**
Publication awarded: Chem. Eur. J. 24 (2018) 12183-12205, among the top 10% most downloaded papers
- **2016 Energies Best Paper Award (2019)**
Publication awarded: Energies 9 (2016) art. no. 384
- **Best of “Energy Technology” 2017 (2018)**
Publication awarded: Energy Technol. 5 (2017) 300-311
- **One of the most relevant articles listed by “Energies” as “Editor's Choice Articles” (2018)**
Publication awarded: Energies 9 (2016) art. no. 384
- **One of the most cited 2016 articles published by “ACS Energy Letters” (2018)**
Publication awarded: ACS Energy Lett. 1 (2016) 678-682
- **One of the most relevant articles listed by “Progress in Photovoltaics” (2017)**
The publication Science 354 (2016) 203-206 has been listed as one of the most relevant articles by this leading journal in the solar cells field (10.1002/pip.2862)
- **Mentioned by “Nature” for having proposed one of the “Five Priorities” in the field of perovskite photovoltaics (2017)**

Publication mentioned: Science 354 (2016) 203-206; source: 10.1038/544155a

- **Best paper award 2015-2016 in “Energy Storage Materials” (2017)**
Publication awarded: *Energy Storage Materials* 3 (2016) 69-76
- **One of the most relevant articles listed by “Progress in Photovoltaics” (2016)**
The publication Chem. Commun. 51 (2015) 16308-16311 has been listed as one of the most relevant articles by this leading journal in the solar cells field (10.1002/pip.2737)
- **Article classified among the 2015 “Highlights” by Wiley (2015)**
Publication awarded: *ChemSusChem* 8 (2015) 3668-3676, mentioned by *Chem. Eng. Technol.* 38 (2015) 2112-2113 as the first photopolymerized electrolyte for sodium-ion batteries
- **“Top open access article” Award by Royal Society of Chemistry (2015)**
Publication awarded: *Chem. Soc. Rev.* 44 (2015) 3431-3473

Roles in commissions of trust

For the European Commission

- **European Commission’s Health and Digital Executive Agency (2022)**
Expert for the HORIZON-CL4-2022-RESILIENCE-01 call
- **Marie Skłodowska-Curie Individual Fellowships (2020, 2021)**
Evaluator
- **ERC Consolidator Grant (2018)**
Remote referee in PE5 panel (Synthetic Chemistry and Materials)

For Universities

- **Agence National de la Recherche (2023)**
External referee for the AAPG Generic call - 2023
- **National Science Center Poland (2022)**
External referee for the OPUS-22 funding scheme
- **Ministero dell’Università e della Ricerca (2021)**
External referee for the Early Career Researcher "Rita Levi Montalcini" program
External referee for the evaluation of VQR 2015-19 research products
- **Università Italo Francese (2021)**
External referee for the calls entitled “Bando Galileo 2022” e “Bando Vinci 2021”
- **Universiti Kebangsaan Malaysia (2021)**
External panelist of the Battery Technology Research Center (UKMBatt)
- **King Abdullah University of Science and Technology (2020)**
External referee for the “Competitive Research Grants (CRG) program”
- **Università degli Studi di Firenze (2019)**
External referee for the “University call for funding competitive projects for fixed-term researchers”
- **Università degli Studi dell’Insubria (2019)**

For scientific societies and academies

External referee for the “Allocation of University funds for the activation of post-doc research grants”

- **Chilean National Commission for Scientific and Technological Research (2016)**
External referee for the “2017 FONDECYT Regular Competition”
- **USERN Prize in Chemical Sciences (2020, 2022)**
Member of the Advisory Board, prize granted by the Universal Scientific Education and Research Network to a under-40 scientist authors of a relevant achievement in the chemical sciences field
- **“Best MSc Thesis in Industrial Chemistry” Award (Ed. 2018, 2019, 2020, 2022) (2018-2020, 2022)**
Member of the Evaluation Committee, prize granted by the Italian Chemical Society
- **“Primo Levi” 2018 Award (2019)**
Member of the Evaluation Committee, prize granted by the Italian Chemical Society to the best publication of the year by a young chemist
- **“ChiMiCapisce” Award (Ed. 2018, 2019) (2018-2019)**
Chair of the Jury, prize granted by the Italian Chemical Society for merits in the field of the dissemination of chemical sciences
- **“Materials”-MDPI Young Investigator Award 2019 (2018)**
Member of the Commission designed to assign this international prize
- **Member of the “Premio Sapienza” Academy (since 2017)**
Member of the Commission designed to assign “Premio Sapienza” award (15000 EUR) for innovation and technology
- **“Giovedì Scienza Award” (6th Edition) (2017)**
Member of the Technical Jury at the final stage of the competition
- **Member of the Scientific Commission of the Italian Chemical Society (2017-2019)**
Member of the Commission in charge of assigning Prizes and Medals of SCI
- **Board Member of CEUR Fundation (since 2017)**
European Center for University and Research, member of the professors board devoted to education and culture to offer young students the best conditions for building their future
- **“Primo Levi” Award (Ed. 2014, 2015, 2016, 2017) (2015-2018)**
Chair of the Evaluation Committee, prize granted by the Italian Chemical Society to the best publication of the year by a young chemist
- **Reaxys SCI Young Researcher Award (Ed. 2015, 2016, 2017, 2018) (2015-2018)**
Chair of the Evaluation Committee, prize granted by the Italian Chemical Society and Elsevier
- **Reaxys SCI Young Researcher 2015 Award (Ed. 2016, 2017, 2018) (2016-2018)**
Member of the Evaluation Committee, prize granted by the Italian Chemical Society and Elsevier

- “**Primo Levi**” **2014 Award** (2015)
Member of the Evaluation Committee, prize granted by the Italian Chemical Society to the best publication of the year by a young chemist
- **Provincia autonoma di Trento** (2021)
External referee supporting the Committee for Research and Innovation

For other institutions

Conferences, workshops and seminars

Invited contributions	13 Talks in conferences/workshops 2 Lectio magistralis 1 Plenary lectures 6 Keynote lectures 4 Awardee lectures 13 Seminars 12 Lectures in PhD schools or advanced training courses (see list)
Contributions	290 contributions (219 in international events) 59 talks (see list)
Organized events	25 events as member of the Organizing/Scientific committee 7 events as a Chair or co-Chair (see list)

Teaching activity

- **Chemistry**
Titular teacher; BSc courses in Engineering (Politecnico di Torino)
Academic years: 2019/2020, 2020/2021, 2021/2022, 2022/2023; Average enrolment: 250 students
- **Facing the scientific publishing world**
Titular teacher; PhD level (Politecnico di Torino)
Academic year: 2022/2023; Average enrolment: 100 students
- **Research design and methodology**
Titular teacher; PhD level (Politecnico di Torino)
Academic year: 2022/2023; Average enrolment: 80 students
- **Photo-Electro-Catalytic Technologies for a Sustainable Chemical Industry: Fundamentals and Applications**
Assistant teacher; PhD in Chemical Engineering (Politecnico di Torino)
Academic year: 2021/2022; Average enrolment: 15 students
- **Chemistry**
Assistant teacher; BSc courses in Engineering (Politecnico di Torino)
Academic years: 2013/2014, 2014/2015, 2015/2016, 2016/2017, 2017/2018, 2018/2019; Average enrolment: 250 students
- **Photochemistry-related materials for the present and future energy scenario**
Cycle of lessons ERASMUS+ professor; BSc in Chemical Engineering (Universitat Politècnica de València)
Academic years: 2016/2017; Average enrolment: 20 students
- **General Chemistry**

Assistant teacher; BSc in Agricultural Science and Technology & Forest and Environmental Sciences (Università degli Studi di Torino)
Academic years: 2015/2016; Average enrolment: 500 students

- **Propaedeutic Course to General Chemistry**

Titular teacher; BSc in Biological Sciences (Università degli Studi di Torino)
Academic years: 2011/2012, 2013/2014, 2014/2015, 2015/2016; Average enrolment: 180 students

- **Chemical Kinetics**

Cycle of lessons; BSc in Forensic Chemistry (National University of Malaysia)
Academic years: 2012/2013; Average enrolment: 100 students

- **General and Inorganic Chemistry**

Assistant teacher; BSc in Biological Sciences (Università degli Studi di Torino)
Academic years: 2009/2010, 2010/2011; Average enrolment: 180 students

- **General Chemistry**

Assistant teacher; BSc in Biological Sciences (Università degli Studi di Torino)
Academic years: 2008/2009; Average enrolment: 180 students

Mentoring roles FB has supervised **82** Thesis at BSc [**54**] and MSc [**28**] levels (see [list](#)).

Visiting periods

Jun – Jul 2021	Visiting Professor @ Universitat Politècnica de València As P.I. of the ERASMUS+ project – Staff Mobility for Teaching
Oct – Nov 2018	Visiting Professor @ Massachusetts Institute of Technology As P.I. of MITOR project
Apr 2017	Visiting Professor @ Universitat Politècnica de València As P.I. of the ERASMUS+ project – Staff Mobility for Teaching
Feb 2013 – May 2013	Visiting PhD Student @ National University of Malaysia Polymer Research Center – Faculty of Science and Technology
May – Jun 2011	Visiting MSc Student @ Universitat Politècnica de València Group for Advanced Oxidation Processes

Advanced schools

- **Learning and Teaching in the Higher Education**

Organized by Politecnico di Torino
Turin (Italy), 20/02-20/06/2017

- **Characterization of polymeric materials: techniques for polymers in solution**

Organized by Italian Association for Science and Technology of Macromolecules
Gargnano (Italy), 19-23/05/2014

- **Synthesis of polymeric materials**

Organized by Italian Association for Science and Technology of Macromolecules
Gargnano (Italy), 21-25/05/2012

Other institutional roles

Jan 2023 – Dec 2025 **Member of the Policy-Making Council** of the Universal Scientific Education & Research Network (USERN)

Sep 2022 – Sep 2023 **Reference Professor** for the BSc degree in Computer Engineering at

	Politecnico di Torino
Sep 2020 – Sep 2021	Reference Professor for the BSc degree in Automotive Engineering at Politecnico di Torino
Sep 2019 – Sep 2020	Reference Professor for the BSc degree in Biomedical Engineering at Politecnico di Torino
Jan 2019 – Dec 2019	Past-Coordinator of the Early-Career Group of the Italian Chemical Society
May 2018	Italian Delegate at the 13 th Delegates Assembly of the European Young Chemists' Network (EYCN-EuCheMS), Turin (Italy)
Jan 2018 – Dec 2020	Board Member of the Safety in Chemical Environment Interdivisional Group of the Italian Chemical Society
May 2017	Italian Delegate at the 12 th Delegates Assembly of the European Young Chemists' Network (EYCN-EuCheMS), Heraklion (Greece)
Apr 2016	Italian Delegate at the 11 th Delegates Assembly of the European Young Chemists' Network (EYCN-EuCheMS), Guimarães (Portugal)
Apr 2015	Italian Delegate at the 10 th Delegates Assembly of the European Young Chemists' Network (EYCN-EuCheMS), Berlin (Germany)
Jun 2013 – Dec 2015	Board Member of the Early-Career Group of the Italian Chemical Society <i>Also serving as Board Member of the Industrial Chemistry Division</i>
May 2009 – May 2012	Student Representative at Università degli Studi di Torino <i>Elected in two Boards: Industrial Chemistry BSc/MSc degrees, Faculty of Science</i>

Peer-reviewed publications list

103. M. Keshavarz-Fathi, N. Yazdanpanah, S. Kolahchi, H. Ziae, G. L. Darmstadt, T. Dorigo, F. Dochy, L. Levin, V. Thongboonkerd, S. Ogino, W. H. Chen, M. Perc, M. S. Tremblay, B. O. Olusanya, I. M. Rao, N. Hatzigyriou, M. Moradi-Lakeh, **F. Bella**, L. Rosivall, A. H. Gandomi, A. Sorooshian, M. Gupta, C. Gal, A. M. Lozano, C. Weaver, M. Tanzer, A. Poggi, S. G. Sepanlou, R. Weiskirchen, A. R. Jambrak, P. J. Torres, E. Capanoglu, F. J. Barba, C. K. J. Ernest, M. Sigman, S. Pluchino, G. B. Gharehpelian, S. M. Fereshtehnejad, M. H. Yang, S. Thomas, W. Cai, E. Comini, N. J. Scolding, P. S. Myles, J. J. Nieto, G. Perry, C. Sedikides, N. Rezaei
Universal research index: an inclusive metric to quantify scientific research output
J. Acad. Librariansh 49 (2023) art. no. 102714
102. M. Bonomo, A. Y. Segura Zarate, L. Fagioli, A. Damin, S. Galliano, C. Gerbaldi, **F. Bella**, C. Barolo
Unreported resistance in charge transport limits the photoconversion efficiency of aqueous dye-sensitised solar cells: an electrochemical impedance spectroscopy study
Mater. Today Sustain. 21 (2023) art. no. 100217
101. F. Schmitz, N. Lago, L. Fagioli, J. Burkhardt, A. Cester, A. Polo, M. Prato, G. Meneghesso, S. Gross, **F. Bella (Corr. Author)**, F. Lamberti, T. Gatti
High open-circuit voltage Cs₂AgBiBr₆ carbon-based perovskite solar cells via green processing of ultrasonic spray-coated carbon electrodes from waste tire sources
ChemSusChem 15 (2022) art. no. e202201590 – Cover

100. L. Fagiolari, D. Versaci, F. Di Berardino, J. Amici, C. Francia, S. Bodoardo, **F. Bella** (Corr. Author)
An exploratory study of MoS₂ as anode material for potassium batteries
Batteries 8 (2022) art. no. 242
99. M. Gandolfo, J. Amici, L. Fagiolari, C. Francia, S. Bodoardo, **F. Bella** (Corr. Author)
Designing photocured macromolecular matrices for stable potassium batteries
Sustain. Mater. Technol. 34 (2022) art. no. e00504
98. S. Siccardi, J. Amici, S. Colombi, J. T. Carvalho, D. Versaci, E. Quartarone, L. Pereira, **F. Bella**, C. Francia, S. Bodoardo
UV-cured self-healing gel polymer electrolyte toward safer room temperature lithium metal batteries
Electrochim. Acta 433 (2022) art. no. 141265
97. R. Colombo, N. Garino, D. Versaci, J. Amici, M. L. Para, E. Quartarone, C. Francia, **F. Bella**, S. Bodoardo
Designing a double-coated cathode with high entropy oxides by microwave-assisted hydrothermal synthesis for highly stable Li–S batteries
J. Mater. Sci. 57 (2022) 15690-15704
96. N. Pirrone, **F. Bella**, S. Hernández
Solar H₂ production systems: current status and prospective applications
Green Chem. 24 (2022) 5379-5402
95. L. Fagiolari, M. Sampò, A. Lamberti, J. Amici, C. Francia, S. Bodoardo, **F. Bella** (Corr. Author)
Integrated energy conversion and storage devices: interfacing solar cells, batteries and supercapacitors
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94. S. Trano, F. Corsini, G. Pascuzzi, E. Giove, L. Fagiolari, J. Amici, C. Francia, S. Turri, S. Bodoardo, G. Griffini, **F. Bella** (Corr. Author)
Lignin as polymer electrolyte precursor for stable and sustainable potassium batteries
ChemSusChem 15 (2022) art. no. e202200294
93. F. Elizalde, J. Amici, S. Trano, G. Vozzolo, R. Aguirresarobe, D. Versaci, S. Bodoardo, D. Mecerreyes, H. Sardon, **F. Bella** (Corr. Author)
Self-healable dynamic poly(urea-urethane) gel electrolyte for lithium batteries
J. Mater. Chem. A 10 (2022) 12588-12596 – IF 11.9
92. T. M. W. J. Bandara, J. M. C. Hansadi, **F. Bella**
A review of textile dye-sensitized solar cells for wearable electronics
Ionics 28 (2022) 2563-2583
91. E. Manarin, F. Corsini, S. Trano, L. Fagiolari, J. Amici, C. Francia, S. Bodoardo, S. Turri, **F. Bella** (Corr. Author), G. Griffini
Cardanol-derived epoxy resins as biobased gel polymer electrolytes for potassium-ion conduction
ACS Appl. Polym. Mater. 4 (2021) 3855-3865
90. M. Alidoost, A. Mangini, F. Caldera, A. Anceschi, J. Amici, D. Versaci, L. Fagiolari, F. Trotta, C. Francia, **F. Bella**, S. Bodoardo
Micro-mesoporous carbons from cyclodextrin nanosponges enabling high-capacity silicon anodes and sulfur cathodes for lithiated Si-S batteries
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89. M. Reina, A. Scalia, G. Auxilia, M. Fontana, **F. Bella**, S. Ferrero, A. Lamberti

Boosting electric double layer capacitance in laser-induced graphene-based supercapacitors
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88. L. Fagiolari, E. Varaia, N. Mariotti, M. Bonomo, C. Barolo, **F. Bella (Corr. Author)**
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Adv. Sustain. Syst. 5 (2021) art. no. 2100025
87. M. A. A. M. Abdah, M. Mokhtar, L. T. Khoon, K. Sopian, N. A. Dzulkurnain, A. Ahmad, Y. Sulaiman, **F. Bella (Corr. Author)**, M. S. Su'ait
Synthesis and electrochemical characterizations of poly(3,4-ethylenedioxythiophene)/manganese oxide coated on porous carbon nanofibers as a potential anode for lithium-ion batteries
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86. L. Lavagna, G. Syrrakostas, L. Fagiolari, J. Amici, C. Francia, S. Bodoardo, G. Leftheriotis, **F. Bella (Corr. Author)**
Platinum-free photoelectrochromic devices working with copper-based electrolytes for ultrastable smart windows
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85. N. A. Rahman, S. A. Hanifah, N. N. Mobarak, A. Ahmad, N. A. Ludin, **F. Bella (Corr. Author)**, M. S. Su'ait
Chitosan as a paradigm for biopolymer electrolytes in solid-state dye-sensitised solar cells
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84. S. Momtazmanesh, A. Saghazadeh, J. C. Aldave Becerra, K. Aramesh, F. J. Barba, **F. Bella**, A. Blakney, M. Capaccioli, R. Castagna, U. Crisanti, T. Davtyan, T. Dorigo, J. Ealy, M. Farokhnia, G. Grancini, M. Gupta, A. Harbi, W. Krysztofiak, A. Kulasinghe, C. M. Lam, A. Leemans, B. Lighthill, V. Limongelli, P. Lopreiato, L. Luongo, C. R. Maboloc, R. Malekzadeh, O. Costa Gomes, M. Milosevic, J. Nouwen, D. Ortega-Sánchez, J. Pawelek, S. Pramanik, S. Ramakrishna, O. Renn, S. Sanseviero, D. Sauter, M. Schreiber, F. W. Sellke, M. A. Shahbazi, N. Shelkovaya, W. H. Slater, D. Snoeck, S. Sztajer, L. Q. Uddin, L. Veramendi-Espinoza, R. Vinuesa, W. C. Willett, D. Wu, K. Żyniewicz, N. Rezaei
International scientific collaboration is needed to bridge science to society: USERN2020 consensus statement
SN Compr. Clin. Med. 3 (2021) 1699-1703
83. S. Galliano, **F. Bella (Corr. Author)**, M. Bonomo, F. Giordano, M. Grätzel, G. Viscardi, A. Hagfeldt, C. Gerbaldi, C. Barolo
Xanthan-based hydrogel for stable and efficient quasi-solid truly aqueous dye-sensitized solar cell with cobalt mediator
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82. J. C. De Haro, E. Tatsi, L. Fagiolari, M. Bonomo, C. Barolo, S. Turri, **F. Bella (Corr. Author)**, G. Griffini
Lignin-based polymer electrolyte membranes for sustainable aqueous dye-sensitized solar cells
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81. J. Amici, C. Torchio, D. Versaci, D. Dessantis, A. Marchisio, F. Caldera, **F. Bella**, C. Francia, S. Bodoardo
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- An overview on anodes for magnesium batteries: challenges towards a promising storage solution for renewables
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79. L. Fagiolari, M. Bonomo, A. Cognetti, G. Meligrana, C. Gerbaldi, C. Barolo, **F. Bella (Corr. Author)**
Photoanodes for aqueous solar cells: exploring additives and formulations starting from a commercial TiO₂ paste
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Recent advances in eco-friendly and cost-effective materials towards sustainable dye-sensitized solar cells
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77. C. Baiano, E. Schiavo, C. Gerbaldi, **F. Bella**, G. Meligrana, G. Talarico, P. Maddalena, M. Pavone, A. B. Muñoz-García
Role of surface defects in CO₂ adsorption and activation on CuFeO₂ delafossite oxide
Mol. Catal. 496 (2020) art. no. 111181
76. G. Meligrana, F. Colò, T. Platini, M. Bartoli, M. Falco, E. Maruccia, L. Fagiolari, G. Lingua, **F. Bella**, P. Jagdale, A. Tagliaferro, C. Gerbaldi
Cheap and easily processable electrode/electrolytes for next-generation sodium-ion batteries
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75. S. Galliano, **F. Bella**, M. Bonomo, G. Viscardi, C. Gerbaldi, G. Boschloo, C. Barolo
Hydrogel electrolytes based on xanthan gum: green route towards stable dye-sensitized solar cells
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74. A. Massaro, A. B. Muñoz-García, P. Maddalena, **F. Bella**, G. Meligrana, C. Gerbaldi, M. Pavone
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73. E. Pulli, E. Rozzi, **F. Bella (Corr. Author)**
Transparent photovoltaic technologies: current trends towards upscaling
Energ. Conv. Manag. 219 (2020) art. no. 112982 – [IF 10.4](#)
72. **F. Bella (Corr. Author)**, L. Porcarelli, D. Mantione, C. Gerbaldi, C. Barolo, M. Grätzel, D. Mecerreyes
A water-based and metal-free dye solar cell exceeding 7% efficiency using a cationic poly(3,4-ethylenedioxythiophene) derivative
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71. A. Dokouzis, **F. Bella (Corr. Author)**, K. Theodosiou, C. Gerbaldi, G. Leftheriotis
Photoelectrochromic devices with cobalt redox electrolytes
Mater. Today Energy 15 (2020) art. no. 100365
70. G. Piana, M. Ricciardi, **F. Bella (Corr. Author)**, R. Cucciniello, A. Proto, C. Gerbaldi
Poly(glycidyl ether)s recycling from industrial waste and feasibility study of reuse as electrolytes in sodium-based batteries
Chem. Eng J. 382 (2020) art. no. 122934 – [IF 15.1](#)
69. L. Fagiolari, **F. Bella (Corr. Author)**
Carbon-based materials for stable, cheaper and large-scale processable perovskite solar cells
Energy Environ. Sci. 12 (2019) 3437-3472 – [IF 35.5](#)

68. G. Piana, **F. Bella**, F. Geobaldo, G. Meligrana, C. Gerbaldi
 PEO/LAGP hybrid solid polymer electrolytes for ambient temperature lithium batteries by solvent-free, “one pot” preparation
J. Energy Storage 26 (2019) art. no. 100947
67. M. Falco, C. Simari, C. Ferrara, J. R. Nair, G. Meligrana, **F. Bella**, I. Nicotera, P. Mustarelli, M. Winter, C. Gerbaldi
 Understanding the effect of UV-induced cross-linking on the physicochemical properties of highly performing PEO/LiTFSI-based polymer electrolytes
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66. T. N. Huan, D. A. Dalla Corte, S. Lamaison, D. Karapinar, L. Lutz, N. Menguy, M. Foldyna, S. H. Turren-Cruz, A. Hagfeldt, **F. Bella**, M. Fontecave, V. Mougel
 Low-cost high-efficiency system for solar-driven conversion of CO₂ to hydrocarbons
Proc. Natl. Acad. Sci. U. S. A 116 (2019) 9735-9740 – IF 11.8
65. M. Falco, L. Castro, J. R. Nair, **F. Bella**, F. Bardè, G. Meligrana, C. Gerbaldi
 UV-cross-linked composite polymer electrolyte for high-rate, ambient temperature lithium batteries
ACS Appl. Energy Mater. 2 (2019) 1600-1607
64. **F. Bella** (Corr. Author), S. Galliano, G. Piana, G. Giacoma, G. Viscardi, M. Grätzel, C. Barolo, C. Gerbaldi
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63. J. R. Nair, F. Colò, A. Kazzazi, M. Moreno, D. Bresser, R. Lin, **F. Bella**, G. Meligrana, S. Fantini, E. Simonetti, G. B. Appeteccchi, S. Passerini, C. Gerbaldi
 Room temperature ionic liquid (RTIL)-based electrolyte cocktails for safe, high working potential Li-based polymer batteries
J. Power Sources 412 (2019) 398-407
62. A. Scalia, **F. Bella** (Corr. Author), A. Lamberti, C. Gerbaldi, E. Tresso
 Innovative multipolymer electrolyte membrane designed by oxygen inhibited UV-crosslinking enables solid-state in plane integration of energy conversion and storage devices
Energy 166 (2019) 789-795
61. L. Lefrançois Perreault, F. Colò, G. Meligrana, K. Kim, S. Fiorilli, **F. Bella**, J. R. Nair, C. Vitale-Brovarone, J. Florek, F. Kleitz, C. Gerbaldi
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 Tuning optical and electronic properties in novel carbazole photosensitizers for p-type dye-sensitized solar cells
Electrochim. Acta 292 (2018) 805-816
59. A. Pedico, A. Lamberti, A. Gigot, M. Fontana, **F. Bella**, P. Rivolo, M. Cocuzza, C. F. Pirri
 High-performing and stable wearable supercapacitor exploiting rGO aerogel decorated with copper and molybdenum sulfides on carbon fibers
ACS Appl. Energy Mater. 1 (2018) 4440-4447
58. **F. Bella** (Corr. Author), P. Renzi, C. Cavallo, C. Gerbaldi
 Caesium for perovskite solar cells: an overview

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57. S. Suriyakumar, S. Gopi, M. Kathiresan, S. Bose, E. B. Gowd, J. R. Nair, N. Angulakshmi, G. Meligrana, **F. Bella**, C. Gerbaldi, A. M. Stephan
Metal organic framework laden poly(ethylene oxide) based composite electrolytes for all-solid-state Li-S and Li-metal polymer batteries
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55. A. Abate, J. P. Correa-Baena, M. Saliba, M. S. Su'ait, **F. Bella (Corr. Author)**
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53. **F. Bella (Corr. Author)**, A. Verna, C. Gerbaldi
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52. **F. Bella (Corr. Author)**, J. Popovic, A. Lamberti, E. Tresso, C. Gerbaldi, J. Maier
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51. F. Colò, **F. Bella (Corr. Author)**, J. R. Nair, C. Gerbaldi
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50. **F. Bella (Corr. Author)**, A. B. Muñoz-García, G. Meligrana, A. Lamberti, M. Destro, M. Pavone, C. Gerbaldi
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48. **F. Bella (Corr. Author)**, D. Pugliese, L. Zolin, C. Gerbaldi
Paper-based quasi-solid dye-sensitized solar cells
Electrochim. Acta 237 (2017) 87-93
47. **F. Bella (Corr. Author)**, S. Galliano, M. Falco, G. Viscardi, C. Barolo, M. Grätzel, C. Gerbaldi
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Green Chem. 19 (2017) 1043-1051
46. S. Galliano, **F. Bella (Corr. Author)**, C. Gerbaldi, M. Falco, G. Viscardi, M. Grätzel, C. Barolo
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44. **F. Bella (Corr. Author)**, G. Griffini, J. P. Correa-Baena, G. Saracco, M. Grätzel, A. Hagfeldt, S. Turri, C. Gerbaldi
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Carbon 107 (2016) 811-822 – IF 10.9
41. R. Shanti, **F. Bella**, Y. S. Salim, S. Y. Chee, S. Ramesh, K. Ramesh
Poly(methyl methacrylate-co-butyl acrylate-co-acrylic acid): physico-chemical characterization and targeted dye sensitized solar cell application
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Sci. Rep. 6 (2016) art. no. 29763
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Cobalt-based electrolytes for dye-sensitized solar cells: recent advances towards stable devices
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A new design paradigm for smart windows: photocurable polymers for quasi-solid photoelectrochromic devices with excellent long-term stability under real outdoor operating conditions
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34. M. Gerosa, A. Sacco, A. Scalia, **F. Bella**, A. Chiodoni, M. Quaglio, E. Tresso, S. Bianco
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Super soft all-ethylene oxide polymer electrolyte for safe all-solid lithium batteries
Sci. Rep. 6 (2016) art. no. 19892
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J. Solid State Electr. 19 (2015) 3079-3085
28. **F. Bella (Corr. Author)**, A. Sacco, G. Massaglia, A. Chiodoni, C. F. Pirri, M. Quaglio
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27. F. Colò, **F. Bella (Corr. Author)**, J. R. Nair, M. Destro, C. Gerbaldi
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26. J. R. Nair, L. Porcarelli, **F. Bella**, C. Gerbaldi
Newly elaborated multipurpose polymer electrolyte encompassing RTILs for smart energy efficient devices
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Siloxane diacrylate-based all-solid polymer electrolytes for lithium batteries
Int. J. Membrane Sci. Techno. 2 (2015) 23-27
24. **F. Bella (Corr. Author)**, C. Gerbaldi, C. Barolo, M. Grätzel
Aqueous dye-sensitized solar cells
Chem. Soc. Rev. 44 (2015) 3431-3473 – IF 46.2 + Cover
23. **F. Bella (Corr. Author)**
Polymer electrolytes and perovskites: lights and shadows in photovoltaic devices
Electrochim. Acta 175 (2015) 151-161
22. **F. Bella (Corr. Author)**, G. Griffini, M. Gerosa, S. Turri, R. Bongiovanni
Performance and stability improvements for dye-sensitized solar cells in the presence of luminescent coatings

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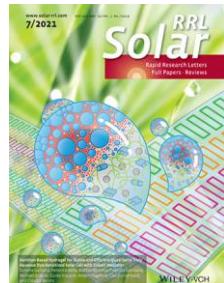
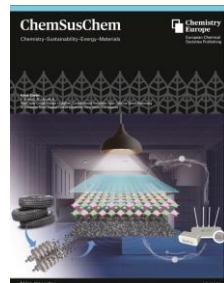
21. A. Sacco, **F. Bella (Corr. Author)**, S. De La Pierre, M. Castellino, S. Bianco, R. Bongiovanni, C. F. Pirri
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ChemPhysChem 16 (2015) 960-969
20. **F. Bella (Corr. Author)**, N. N. Mobarak, F. N. Jumaah, A. Ahmad
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Electrochim. Acta 151 (2015) 306-311
19. G. Griffini, **F. Bella**, F. Nisic, C. Dragonetti, D. Roberto, M. Levi, R. Bongiovanni, S. Turri
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18. D. Pugliese, A. Lamberti, **F. Bella**, A. Sacco, S. Bianco, E. Tresso
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17. **F. Bella**, A. Chiappone, J. R. Nair, G. Meligrana, C. Gerbaldi
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Electrochim. Acta 146 (2014) 44-51
15. A. Chiappone, **F. Bella (Corr. Author)**, J. R. Nair, G. Meligrana, R. Bongiovanni, C. Gerbaldi
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14. **F. Bella (Corr. Author)**, A. Lamberti, A. Sacco, S. Bianco, A. Chiodoni, R. Bongiovanni
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Physica B 450 (2014) 151-154
12. **F. Bella (Corr. Author)**, M. Imperiyka, A. Ahmad
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J. Photochem. Photobiol. A-Chem. 289 (2014) 73-80
11. **F. Bella (Corr. Author)**, A. Sacco, D. Pugliese, M. Laurenti, S. Bianco
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Multi-functional energy conversion and storage electrodes using flower-like zinc oxide

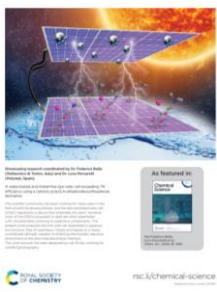
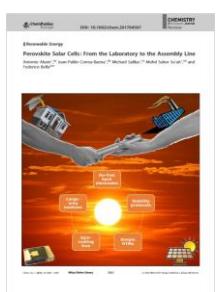
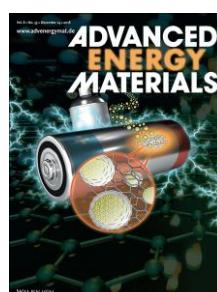
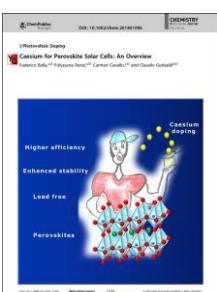
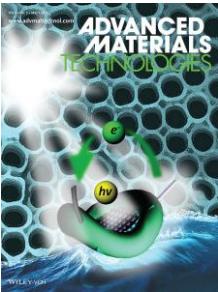
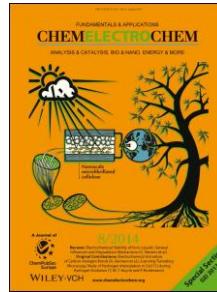
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6. P. Avetta, **F. Bella**, A. Bianco Prevot, E. Laurenti, E. Montoneri, A. Arques, L. Carlos
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ACS Sustain. Chem. Eng. 1 (2013) 1545-1550
5. **F. Bella (Corr. Author)**, J. R. Nair, C. Gerbaldi
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4. **F. Bella (Corr. Author)**, R. Bongiovanni, R. S. Kumar, M. A. Kulandainathan, A. M. Stephan
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3. **F. Bella (Corr. Author)**, E. D. Ozzello, S. Bianco, R. Bongiovanni
Photo-polymerization of acrylic/methacrylic gel–polymer electrolyte membranes for dye-sensitized solar cells
Chem. Eng. J. 225 (2013) 873-879 – IF 15.1
2. **F. Bella (Corr. Author)**, R. Bongiovanni
Photoinduced polymerization: an innovative, powerful and environmentally friendly technique for the preparation of polymer electrolytes for dye-sensitized solar cells
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Journal covers



 <p><i>ChemSusChem</i> 13 (2020) 6562-6573</p>	 <p><i>Green Chem.</i> 22 (2020) 7168-7218</p>	 <p><i>Chem. Sci.</i> 11 (2020) 1485-1493</p>	 <p><i>Langmuir</i> 35 (2019) 8210-8219</p>
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 <p><i>Adv. Mater. Technol.</i> 1 (2016) art. no. 1600002</p>	 <p><i>Chem. Commun.</i> 51 (2015) 16308-16311</p>	 <p><i>Chem. Soc. Rev.</i> 44 (2015) 3431-3473</p>	 <p><i>ChemElectroChem</i> 1 (2014) 1350-1358</p>

Patents list

3. E. Molena, C. Hamon, S. R. Petricci, G. Piana, **F. Bella**, C. Gerbaldi
Solid electrolyte composition
International publication number: WO2020099261A1
2. L. Castro, F. Barde, J. R. Nair, M. Falco, **F. Bella**, C. Gerbaldi
Composite polymer electrolyte (CPE) membranes for secondary solid state Li-metal cells and process for the production thereof
International publication number: WO2019052648A1 (21/03/2019)
1. J. R. Nair, C. Gerbaldi, L. Porcarelli, **F. Bella**, I. Doberdò, S. Bodoardo, N. Penazzi, C. Capiglia
Polymer electrolyte membranes and process for the production thereof
International publication number: WO2015104727A1 (16/07/2015)

Editorials in scientific journals list

5. M. Eisa, D. Ragauskaitė, S. Adhikari, **F. Bella**, J. Baltrusaitis
Role and responsibility of sustainable chemistry and engineering in providing safe and sufficient nitrogen fertilizer supply at turbulent times
ACS Sustain. Chem. Eng. 10 (2022) 8997-9001
4. S. M. Richardson, **F. Bella** (Corr. Author), V. Mougel, J. V. Milić
Scientific writing and publishing for early-career researchers from the perspective of young chemists
J. Mater. Chem. A 9 (2021) 18674-18680 – IF 11.9
3. **F. Bella**
Across the Board: Federico Bella on electrochemical nitrogen reduction
ChemSusChem 13 (2020) 3053-3055
2. **F. Bella**, R. Kostecki
Symposium in honor of Prof. Jan Augustynski, “Photo-electrochemical energy conversion: foreword”
Electrochim. Acta 325 (2019) art. no. 134917
1. **F. Bella**, G. Meligrana, C. Gerbaldi
Sustainable electrochemistry - Functional applied materials and techniques for energy devices and sensing (GEI 2018): foreword
Electrochim. Acta 303 (2019) 105-109

Books and book chapters list

12. N. Yazdanpanah, F. Dochy, G. L. Darmstadt, G. J. Peters, A. Tsitlakidis, E. C. Aifantis, A. Cerda, E. Comini, S. Brand, M. Gupta, B. D. Cheson, S. Thomas, M. Tanzer, R. Weiskirchen, **F. Bella**, S. M. Fereshtehnejad, K. Nikita, I. Ali, K. Kato, A. Poggi, E. C. K. Jon, I. M. Rao, X. Tao, J. H. He, J. J. M. Rao, A. Leemans, A. Pomponio, A. Martínez Hernandez, H. Ahmadieh, M. A. Sahraian, R. Kelishadi, V. Thongboonkerd, S. Bahinipati, M. Toi, M. von Herrath, F. Sellke, S. Sherwood, G. Perry, J. J. Nieto, S. Gupta, T. Dorigo, B. Mobasher, H. D. Ochs, N. Rezaei
Cancer: a complex problem requiring interdisciplinary research
in: **Interdisciplinary Cancer Research**
ISBN: 978-1-83916-388-3
pp. 1-45, Springer Nature Switzerland AG, Cham, 2023
11. **F. Bella**, L. Fagiolari
New and unconventional trends in dye-sensitized solar cells: materials, devices and attempts towards market entry
in: **Photochemistry: Volume 49**
ISBN: 978-1-83916-388-3
pp. 292-307, The Royal Society of Chemistry, Cambridge, 2022
10. G. Annunziato, M. Atzori, **F. Bella**, C. Bonfio, S. Cinti, M. Da Pian, V. Lazazzara, E. Lenci, E. Paone, F. Ponte, L. Rivoira, M. Schlich, L. Triggiani
Proceedings of the Merck & Elsevier Young Chemists Symposium 2019
ISBN: 978-88-94952-15-5
pp. 1-246, Società Chimica Italiana, Rome, 2019
9. **F. Bella**, L. Botta, R. Cucciniello, A. D'Urso, P. Franco, E. Lenci, G. Mazzone, M. Schlich, A. Soldà, R. Spezzano, S. Staderini, L. Triggiani
Proceedings of the Merck & Elsevier Young Chemists Symposium (MEYCS 2018)
ISBN: 978-88-94952-03-2
pp. 1-212, Società Chimica Italiana, Rome, 2018

8. **F. Bella**, C. Gerbaldi, S. Turri, G. Griffini
Photopolymers for third-generation solar cells
in: ***Photopolymerisation Initiating Systems***
ISBN: 978-1-78262-962-7
pp. 504-523, The Royal Society of Chemistry, Cambridge, 2018
7. **F. Bella**, P. Franco, E. Lenci, A. Soldà, S. Staderini, L. Triggiani
Proceedings of the EYCN Symposium – 1st Edition
ISBN: 978-88-86208-88-8
pp. 1-58, Società Chimica Italiana, Rome, 2018
6. **F. Bella**, L. Botta, A. Buchicchio, R. Cucciniello, A. D'Urso, A. Erba, P. Franco, E. Lenci, G. Mazzone, A. Soldà, S. Staderini, L. Triggiani, D. Spinelli
Proceedings of the Merck Young Chemists Symposium – XVII Edition
ISBN: 978-88-86208-89-5
pp. 1-193, Società Chimica Italiana, Rome, 2017
5. **F. Bella**, L. Botta, A. Buchicchio, R. Cucciniello, A. D'Urso, A. Erba, P. Franco, E. Lenci, G. Mazzone, M. Pavone, A. Soldà, S. Staderini, L. Triggiani, D. Spinelli
Proceedings of the Merck Young Chemists Symposium
ISBN: 978-88-86208-92-5
pp. 1-183, Società Chimica Italiana, Rome, 2016
4. **F. Bella**, C. Gerbaldi
Natural polymers for dye-sensitized solar cells: electrolytes and electrodes
in: ***Encyclopedia of Polymer Science and Technology***
ISBN: 978-04-71440-26-0
pp. 1-18, John Wiley & Sons, Inc., Hoboken NJ, 2016
3. **F. Bella**, D. Spinelli
Proceedings of the XV Sigma-Aldrich Young Chemists Symposium (SAYCS 2015)
ISBN: 978-88-86208-94-9
pp. 1-187, Società Chimica Italiana, Rome, 2015
2. **F. Bella**, G. Griffini, R. Bongiovanni, S. Turri
Light-cured luminescent coatings for photovoltaic devices
in: ***Dyes and Chromophores in Polymer Science***
ISBN: 978-1-84821-742-3
pp. 361-391, Wiley-ISTE, London, 2015
1. A. Sacco, **F. Bella**, S. Bianco, R. Bongiovanni
Photocured polymer electrolyte membranes for dye-sensitized solar cells
in: ***Photovoltaics: Synthesis, Applications and Emerging Technologies***
ISBN: 978-1-63117-843-6
pp. 53-72, Nova Science Publishers, Inc., Hauppauge NY, 2014

Organized conferences, workshops and scientific events list

- **Scuola di Chimica Industriale 2023**
PhD school (50 participants)
Chair of the Organizing committee
Turin (Italy), 28/05-01/06/2023
- **Giornate Italiane di Fotochimica del Gruppo Italiano di Fotochimica (GIF²)**
National conference (90 participants)

Member of the Organizing committee

Virtual meeting, 23-24/09/2021

- **Chemistry Conference for Young Scientists (CHEMCYS 2020)**

International conference (350 participants)

Member of the Scientific committee

Blankenberge (Belgium), 19-21/02/2020

- **Avogadro Colloquia 2019 - Elements of the Periodic Table for Energy**

International conference (100 participants)

Member of the Scientific and Organizing committee

Rome (Italy), 17-18/12/2019

- **Merck Young Chemists Symposium 2019 (MYCS 2019)**

International conference (240 participants)

Member of the Scientific and Organizing committee

Rimini (Italy), 25-27/11/2019

- **XXI Congresso Nazionale della Divisione di Chimica Industriale della Società Chimica Italiana**

National conference (90 participants)

Member of the Scientific committee

Salerno (Italy), 27/08/2019

- **ChiMiCapisce 2019**

Event on the dissemination of chemical sciences (80 participants)

Member of the Scientific and Promoting committee

Rome (Italy), 28/05/2019

- **Y-RICh 2019 – Young Research Ideas in Chemistry**

National workshop (80 participants)

Member of the Scientific and Promoting committee

Rome (Italy), 27/05/2019

- **Merck & Elsevier Young Chemists Symposium 2018 (MEYCS 2018)**

International conference (210 participants)

Chair of the Scientific and Organizing committee

Rimini (Italy), 19-21/11/2018

- **69th Annual Meeting of the International Society of Electrochemistry**

International conference (2200 participants)

Symposium organizer

Bologna (Italy), 02-07/09/2018

- **XX Congresso Nazionale di Catalisi – XX Congresso Nazionale della Divisione di Chimica Industriale (GIC-DiChIn2018)**

National conference (150 participants)

Member of the Scientific committee

Milan (Italy), 02-05/09/2018

- **Design your Future**

National workshop (80 participants)

Member of the Scientific and Promoting committee

Bari (Italy), 20/08/2018

- **ChiMiCapisce 2018**

Kick-off workshop of the Interdivisional Group for the Diffusion of Chemical Sciences of the Italian Chemical Society (85 participants)

*Member of the Scientific and Promoting committee
Rome (Italy), 08/06/2018*

- **Y-RICh 2018 – Young Research Ideas in Chemistry**
National workshop (80 participants)
Member of the Scientific and Promoting committee
Rome (Italy), 07/06/2018
- **EYCN Symposium and XIII EYCN Delegate Assembly**
International conference and diplomatic event (50 participants)
Chair of the Scientific and Organizing committee
Turin (Italy), 05-09/05/2018
- **Giornate dell'Elettrochimica Italiana (GEI 2018)**
International conference (100 participants)
co-Chair and member of the Organizing committee
Sestriere (Italy), 21-25/01/2018
- **Merck Young Chemists Symposium 2017 (MYCS 2017)**
International conference (180 participants)
Chair of the Scientific and Organizing committee
Milano Marittima (Italy), 13-15/11/2017
- **Y-RICh 2017 – Young Research Ideas in Chemistry**
National workshop (80 participants)
Member of the Scientific and Promoting committee
Rome (Italy), 23/06/2017
- **Merck Young Chemists Symposium 2016 (MYCS 2016)**
International conference (170 participants)
Chair of the Scientific and Organizing committee
Rimini (Italy), 25-27/10/2016
- **Design your Future**
National workshop (70 participants)
Member of the Scientific and Organizing committee
Fisciano (Italy), 13/10/2016
- **Y-RICh 2016 – Young Research Ideas in Chemistry**
National workshop (100 participants)
Member of the Scientific and Promoting committee
Rome (Italy), 10/06/2016
- **XV Sigma-Aldrich Young Chemists Symposium (SAYCS 2015)**
International conference (175 participants)
Chair of the Scientific and Organizing committee
Rimini (Italy), 27-29/10/2015
- **Y-RICh 2014 – Young Research Ideas in Chemistry**
National workshop (70 participants)
Member of the Scientific and Organizing committee
Rome (Italy), 15/12/2014
- **XIV Società Chimica Italiana & Sigma-Aldrich Young Chemists Symposium (SCI&SAYCS 2014)**
International conference (170 participants)
Chair of the Scientific and Organizing committee
Riccione (Italy), 27-29/10/2014

- **65th Annual Meeting of the International Society of Electrochemistry**
International conference (1800 participants)
Student helper
Lausanne (Switzerland), 31/08-05/09/2014
- **Y-RICh 2013 – Young Research Ideas in Chemistry**
National workshop (40 participants)
Member of the Scientific and Organizing committee
Rome (Italy), 16/12/2013

Invited communications at conferences, workshops and seminars

- Lecture @ PhD School in Chemical, Biological and Environmental Sciences of Università degli Studi di Salerno (Italy, 2022)
Academic CV: what to do (and not do)
- Talk @ Alessandro Volta's legacy and the great challenges of humanity: past and future of electrochemistry, Como (Italy, 2022)
Sun, water and air: how electrochemistry is designing the energy scenarios for the ecological transition
- Talk @ 4th International Conference on Materials: Advanced and Emerging Materials (ICM 2022), Barcelona (Spain, 2022)
Advanced materials supporting the lithium and post-lithium energy technologies
- Talk @ Italian Electrochemistry Days (GEI) 2022, Orvieto (Italy, 2022)
Nitrogen- and potassium-based technologies boosting the energy transition
- Awardee Lecture @ XL Convegno Nazionale della Divisione di Chimica Organica della Società Chimica Italiana, Palermo (Italy, 2022)
Organic materials supporting the arising battery gigafactories
- Seminar @ 8th EuChemS Chemistry Congress (ECC8), Lisbon (Portugal) (2022)
Academic CV: what to do (and not do)
- Lecture @ FCT BEST Programme - Cellulose, more than paper!, Lisbon (Portugal) (2022)
Biosourced polymers: making energy devices sustainable
- Keynote @ Junior Euromat 2022, Coimbra (Portugal, 2022)
Electrochemistry for energy: conversion, storage and integration for a self-powered society
- Talk @ Chemistry for the Future (CFF 2022), Pisa (Italy, 2022)
Energy electrochemistry: conversion, storage and integration strategies for a self-powered society
- Plenary @ Merck Young Chemists' Symposium 2021 (MYCS 2021), Rimini (Italy, 2021)
Chemical challenges in energy technologies – A perspective from an under-35 chemist
- Talk @ Innovative Materials for Energy (IME 2021), Messina (Italy, 2021)
Lithium-mediated approaches for sun-powered ammonia electrosynthesis
- Seminar @ American Chemical Society – UKM International Student Chapter, Virtual meeting (2021)
Challenge in paving a career in Chemistry
- Lecture @ Doctochem, Virtual meeting (2021)
Publishing at high impact: common challenges and mistakes
- Seminar @ Professional Association of Engineers of the Province of Turin, Virtual meeting (2021)

Post-Li chemistries at the Electrochemistry Group @PolITO

- Talk @ 4th International Conference on Science & Engineering of Materials, Virtual meeting (2021)
Challenges of photovoltaics and electrochemical energy storage from 2021
- Talk @ Solar Power Technologies (SPTECH 2021), Virtual meeting (2021)
Advances in electrodes and electrolytes for aqueous photovoltaics
- Talk @ 5th USERN Congress and Prize Awarding Festival, Virtual meeting (2020)
Photovoltaics and energy storage challenges from 2020
- Seminar @ POLYMAT University of the Basque Country UPV/EHU, Virtual meeting (2020)
Polymers for integrable energy devices
- Lecture @ Jornadas CICECO 2020, Virtual meeting (2020)
How to avoid easy rejection of your PhD papers!
- Seminar @ Green Chemistry and Renewable Energy: new scenarios and opportunities, L'Aquila (Italy, 2020)
Polymers for unconventional applications in the energy conversion and storage field
- Keynote @ EUROMAT 2019, Stockholm (Sweden, 2019)
Strategies for electrodes and electrolytes design for aqueous solar cells
- Keynote @ 47th IUPAC World Chemistry Congress, Paris (France, 2019)
Publishing in top journals: tips and common mistakes
- Seminar @ University of Bremen, Bremen (Germany, 2019)
Highlight, underline and stress: which CV for each occasion
- Seminar @ Department of Mechanical Engineering - Massachusetts Institute of Technology, Cambridge (USA, 2018)
Hybrid photovoltaics and post-lithium batteries: towards stability, scale up and integration by a polymers-aided approach
- Keynote @ 69th Annual ISE Meeting, Bologna (Italy, 2018)
Biopolymers, water, and integrated systems: the new frontier of dye-sensitized solar cells
- Talk @ Electroceramics XVI, Hasselt (Belgium, 2018)
Amorphous and crystalline titanium dioxide in sodium batteries: an experimental and theoretical approach
- Talk @ 16th International Symposium on Polymer Electrolytes (ISPE-16), Yokohama (Japan, 2018)
Overcoming the instability of dye-sensitized and perovskite solar cells through biosourced, fluorinated and water-based polymers
- Lecture @ School on Advanced Materials for Sustainable Energy Technologies (SAMSET18), Lecce (Italy, 2018)
Innovative chemical strategies for the improvement of last generation solar converting/storage devices stability
- Seminar @ Professional Association of Engineers of the Province of Turin (Italy, 2018)
Innovative materials for photovoltaic modules
- Lecture @ Y-RICh 2018 – Young Research Ideas in Chemistry, Rome (Italy, 2018)
*Preparing the candidature for prizes and projects: key aspects of the academic CV.
European Projects: general introduction and personal experiences*

- Seminar @ Laboratoire des Sciences Photomoléculaires - École Polytechnique Fédérale de Lausanne, Lausanne (Switzerland, 2018)
A polymeric approach for organic and aqueous dye-sensitized solar cells
- Lecture @ 1st EnerCHEM School – Chemistry for the Energy Transition, Florence (Italy, 2018)
Polymeric materials for energy conversion and storage devices
- Lecture @ 8th EPF Summer School (Transport Phenomena in Polymers and Hybrid Materials), Gargnano (Italy, 2017)
Polymers in batteries and emerging photovoltaics: applications and challenges
- Lecture @ CV Clinic Day, Bologna (Italy, 2017)
CV for academic positions and individual EU grants
- Seminar @ Department of Environment, Land and Infrastructure Engineering, Politecnico di Torino, Turin (Italy, 2017)
Frontiers in solar cells and batteries
- Lectio Magistralis @ ENI Award day, Politecnico di Torino, Turin (Italy, 2016)
Photopolymers for dye-sensitized solar cells
- Lectio Magistralis @ ENI Award day, Università degli Studi di Palermo, Palermo (Italy, 2016)
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- Talk @ NIS colloquium: Harnessing the Power of Light in Hybrid Materials, Turin (Italy, 2016)
Light-induced design of smart materials for energy devices
- Lecture @ Funding in Europe, a workshop by European Young Chemists Network (EYCN) in Cooperation with DFG – German Research Foundation, Seville (Spain, 2016)
A Marie-Curie post-doc: tricks for a successful proposal
- Awardee Lecture @ Final of the European Young Chemist Award 2016 (EUCA2016) @6th EuCheMS Chemistry Congress, Seville (Spain, 2016)
Photopolymers as emerging advanced materials for sustainable conversion and storage energy devices
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Faster than light: the evolution of polymer electrolytes for new generation solar cells in the last five years
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25. **F. Bella**, F. Colò, M. Destro, J. R. Nair, C. Gerbaldi
Towards large-scale energy storage systems: how industrially-scalable polymer electrolytes can be conceived
in: ***XIX Congresso Nazionale della Divisione di Chimica Industriale della Società Chimica Italiana***
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24. **F. Bella**, A. Lamberti, S. Bianco, E. Tresso, C. Gerbaldi, F. Pirri
Microfluidic flexible DSSCs based of UV- and thermal-cured polymeric materials
in: ***International Conference on Hybrid and Organic Photovoltaics 2015 (HOPV15)***
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23. **F. Bella**, G. Griffini, V. Gianotti, M. Milanesio, R. Bongiovanni, S. Turri, A. Menozzi, C. Barolo
Multifunctional coatings for photovoltaic devices: when one of the less studied components makes the difference
in: ***International Conference on Hybrid and Organic Photovoltaics 2015 (HOPV15)***
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22. **F. Bella**, J. R. Nair, C. Gerbaldi
Materials for electrochemical energy conversion and storage: novel approaches and chemistry thereof
in: ***4th Berliner Chemie Symposium***

- Poster – Berlin (Germany), 09/04/2015
21. **F. Bella**, G. Griffini, F. Nisic, C. Dragonetti, D. Roberto, M. Levi, R. Bongiovanni, S. Turri
Luminescent europium complex-laden coatings as exceptional downshifters for organic dye-sensitized solar cells
in: **Società Chimica Italiana & Sigma-Aldrich Young Chemists Symposium (SCI&SAYCS, 14th Edition)**
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20. **F. Bella**, G. Griffini, S. Turri, R. Bongiovanni
Fotopolimeri luminescenti: come convertire la luce UV in luce visibile utile ai dispositivi fotovoltaici
in: **Macrogiovani @ XXI Convegno Nazionale dell'Associazione Italiana di Scienza e Tecnologia delle Macromolecole**
Talk – Turin (Italy), 14-19/09/2014
19. **F. Bella**, A. Lamberti, A. Sacco, A. Chiodoni, S. Bianco, R. Bongiovanni
Towards flexible DSSCs combining vertically aligned TiO₂ nanotubes array and UV-cured polymer networks
in: **XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014**
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18. **F. Bella**, A. Sacco, S. De La Pierre, M. Castellino, S. Bianco, R. Bongiovanni
Electrodes/electrolyte interfaces in the presence of a Si-modified photopolymer electrolyte: application in DSSCs
in: **XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014**
Poster – Rende (Italy), 07-12/09/2014
17. **F. Bella**, D. Pugliese, A. Lamberti, A. Sacco, S. Galliano, V. Cauda, S. Bianco, C. Gerbaldi, C. Barolo
How to approach a Grätzel solar cell in a multivariate way
in: **XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014**
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16. **F. Bella**, G. Griffini, R. Bongiovanni, S. Turri
Fluoropolymeric luminescent downshifters for organic-dye-sensitized solar cells
in: **XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014**
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15. **F. Bella**, A. Chiappone, J. R. Nair, G. Meligrana, R. Bongiovanni, C. Gerbaldi
Nanoscale microfibrillated cellulose for green polymer electrolytes for DSSCs
in: **XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014**
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14. **F. Bella**, R. Bongiovanni
Photopolymers for Grätzel's solar cells
in: **XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014**
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13. **F. Bella**, A. Sacco, S. De La Pierre, M. Castellino, S. Bianco, R. Bongiovanni
A UV-curable silicon monomer introduced in a polymer electrolyte modifies electrodes/electrolyte interfaces in DSSCs
in: **XIV International Symposium on Polymer Electrolytes (ISPE-14)**
Poster – Geelong (Australia), 24-29/08/2014
12. **F. Bella**, C. Gerbaldi, S. Bianco, E. Tresso, F. Pirri, R. Bongiovanni
Light-produced polymer electrolytes for light-conversion in dye-sensitized solar cells

- in: **XIV International Symposium on Polymer Electrolytes (ISPE-14)**
 Talk – Geelong (Australia), 24-29/08/2014
11. **F. Bella**, A. Lamberti, A. Sacco, S. Bianco, E. Tresso, R. Bongiovanni
 Solar energy converted by flexible devices: photocured polymer electrolytes and bendable nanotubes membranes
 in: **VII Giornate Italo-Francesi di Chimica / 7èmes Journées Franco-Italiennes de Chimie (GIFC2014)**
 Poster – Turin (Italy), 05-06/05/2014
10. **F. Bella**, A. Sacco, G. Salvador, S. Bianco, E. Tresso, C. F. Pirri, R. Bongiovanni
 Light cured polymer electrolytes for dye-sensitized solar cells with unconventional redox couples
 in: **13° Sigma Aldrich Young Chemists Symposium - 13° S.A.Y.C.S.**
 Talk – Riccione (Italy), 28-30/10/2013
9. A. Lamberti, N. Garino, **F. Bella**, K. Bejtka, S. Bianco, G. Canavese, S. Stassi, A. Chiodoni, D. Manfredi, E.P. Ambrosio, M. Lombardi, C.F. Pirri, M. Quaglio
 BaTiO₃ nanotube arrays by hydrothermal conversion of TiO₂ nanotube carpets grown by anodic oxidation
 in: **64th Annual Meeting of the International Society of Electrochemistry**
 Poster – Santiago de Queretaro (Mexico), 08-13/09/2013
8. **F. Bella**, S. Bianco, C. Gerbaldi, D. Pugliese, A. Sacco, A. Chiappone, J. R. Nair, C. Barolo, A.M. Stephan, R. Bongiovanni
 Photoelectrochemical characterization of UV-crosslinked polymer electrolytes with non-conventional additives: towards efficient and durable quasi-solid DSSCs
 in: **64th Annual Meeting of the International Society of Electrochemistry**
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7. **F. Bella**, E. D. Ozzello, A. Sacco, S. Bianco, R. Bongiovanni
 A highly efficient quasi-solid polymer electrolyte for dye-sensitized solar cells prepared in only 7 minutes
 in: **Frontiers in Polymer Science**
 Poster – Sitges (Spain), 21-23/05/2013
6. **F. Bella**, E. D. Ozzello, S. Bianco, R. Bongiovanni
 Photopolymerization of acrylic/methacrylic polymer electrolyte membranes for dye-sensitized solar cells: effect of crosslinking density and addition of iodine salts
 in: **Frontiers in Polymer Science**
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5. **F. Bella**, J. R. Nair, A. Sacco, D. Pugliese, E. D. Ozzello, S. Bianco, C. Gerbaldi, R. Bongiovanni
 Acrylic and methacrylic polymer electrolytes for dye-sensitized solar cells prepared by an elegant and rapid UV-curing process
 in: **4th International Conference on Functional Materials & Devices 2013 (ICFMD - 2013)**
 Invited talk – Penang (Malaysia), 08-11/04/2013
4. **F. Bella**, E. D. Ozzello, A. Sacco, S. Bianco, R. Bongiovanni
 A 4.41% sunlight conversion efficiency obtained with a polymer electrolyte prepared in just seven minutes
 in: **4th International Conference on Functional Materials & Devices 2013 (ICFMD - 2013)**
 Poster – Penang (Malaysia), 08-11/04/2013

3. **F. Bella**, E. D. Ozzello, D. Pugliese, J. R. Nair, A. Sacco, S. Bianco, C. Gerbaldi, C. Barolo, R. Bongiovanni
Polymer electrolyte membranes for dye-sensitized solar cells prepared by an elegant and rapid UV-curing process
in: ***NIS colloquium: Dye-sensitized Solar Cells: from materials to devices***
Talk – Turin (Italy), 31/01-01/02/2013
2. **F. Bella**, D. Pugliese, J. R. Nair, S. Bianco, C. Gerbaldi, R. Bongiovanni
A new photo-crosslinked polymer electrolyte for dye-sensitized solar cells optimized by design of experiment
in: ***European Symposium of Photopolymer Science***
Poster – Turin (Italy), 04-07/09/2012
1. **F. Bella**, D. Pugliese, J. R. Nair, S. Bianco, C. Gerbaldi, R. Bongiovanni
UV-crosslinked polymer electrolyte for quasi-solid dye-sensitized solar cells with excellent efficiency
in: ***XIII International Symposium on Polymer Electrolytes (ISPE-13)***
Talk – Selfoss (Iceland), 26-31/08/2012

Conference contributions

CONTRIBUTIONS PRESENTED BY F.B.'s COLLEAGUES

187. **F. Bella**, F. Elizalde, J. Amici, S. Trano, G. Vozzolo, R. Aguirresarobe, D. Versaci, S. Bodoardo, D. Mecerreyes, H. Sardon
Dynamic poly(urea-urethane) gel electrolyte for self-repairing lithium batteries
in: ***Merck Young Chemists' Symposium 2022 (MYCS 2022)***
Poster – Rimini (Italy), 21-23/11/2022
186. A. Mangini, L. Fagiolari, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
Li-mediated N₂ reduction reaction into NH₃: recent outcomes and the SuN₂rise Li-N₂ cells concept
in: ***Merck Young Chemists' Symposium 2022 (MYCS 2022)***
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185. N. Pirrone, S. Garcia Ballesteros, S. Hernandez, **F. Bella**
Preliminary tests of electrochemical nitrogen conversion into ammonia in aqueous electrolyte
in: ***Merck Young Chemists' Symposium 2022 (MYCS 2022)***
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184. S. Trano, E. Manarin, G. Pascuzzi, F. Corsini, L. Fagiolari, J. Amici, C. Francia, S. Bodoardo, S. Turri, G. Griffini, **F. Bella**
Biobased polymer electrolytes for sustainable potassium batteries
in: ***Merck Young Chemists' Symposium 2022 (MYCS 2022)***
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183. L. Fagiolari, M. Gandolfo, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
UV-cured gel polymer electrolyte for stable potassium-batteries
in: ***Merck Young Chemists' Symposium 2022 (MYCS 2022)***
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182. M. Gandolfo, J. Amici, C. Francia, **F. Bella**, S. Bodoardo
Crosslinked ionogels containing inorganic additives for safer lithium metal batteries
in: ***Merck Young Chemists' Symposium 2022 (MYCS 2022)***
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181. S. Trano, E. Manarin, G. Pascuzzi, F. Corsini, L. Fagiolari, J. Amici, C. Francia, S. Bodoardo, S. Turri, G. Griffini, **F. Bella**

- Smart polymeric platforms for potassium batteries
in: **11th European School for Young Materials Scientists**
Talk – Lisbon (Portugal), 27-28/09/2022
180. M. Bonomo, S. Galliano, L. Fagiolari, A. Y. Segura Zarate, N. Barbero, C. Gerbaldi, **F. Bella**, C. Barolo
Innovative and sustainable materials for aqueous dye-sensitized solar cells: a focus on photoanode/electrolyte interface
in: **Giornate dell'Elettrochimica Italiana (GEI) 2022**
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179. M. Gandolfo, J. Amici, C. Francia, **F. Bella**, S. Bodoardo
Crosslinked ionogels containing inorganic additives for safer lithium metal batteries
in: **Giornate dell'Elettrochimica Italiana (GEI) 2022**
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178. R. Colombo, N. Garino, M. Laurenti, D. Versaci, J. Amici, S. Bodoardo, **F. Bella**, C. Francia
Microwave synthesis of rGO/ZnS nanocomposite as cathodic material for Li-S batteries
in: **Giornate dell'Elettrochimica Italiana (GEI) 2022**
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177. G. Pascuzzi, S. Trano, F. Corsini, E. Giove, L. Fagiolari, J. Amici, C. Francia, S. Turri, S. Bodoardo, **F. Bella**, G. Griffini
Gel polymer electrolytes based on lignin for potassium batteries
in: **XXIV Convegno Nazionale dell'Associazione Italiana di Scienza e Tecnologia delle Macromolecole**
Talk – Trento (Italy), 04-07/09/2022
176. E. Manarin, F. Corsini, S. Trano, L. Fagiolari, J. Amici, C. Francia, S. Bodoardo, S. Turri, **F. Bella**, G. Griffini
Biobased epoxy resins from cardanol for potassium-ion conducting gel polymer electrolytes
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175. R. Colombo, D. Versaci, J. Amici, S. Bodoardo, C. Francia, **F. Bella**, N. Garino
Innovative hybrid high voltage electrodes based on LMNO/LFP materials for lithium ion batteries
in: **Swiss Battery Days 2022**
Talk – Dübendorf (Switzerland), 29-31/08/2022
174. L. Fagiolari, M. Bonomo, S. Galliano, A. Cognetti, N. Mariotti, C. Barolo, **F. Bella**
Electrodes and electrolyte materials for aqueous dye-sensitized solar cells
in: **Italian Photochemistry Meeting 2021**
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173. L. Fagiolari, F. Giraldo, S. Trano, D. Versaci, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
Nanostructured TiO₂ as anode material for potassium batteries
in: **Merck Young Chemists' Symposium 2021 (MYCS 2021)**
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172. A. Mangini, L. Fagiolari, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
An overview on Li-mediated ammonia production
in: **Merck Young Chemists' Symposium 2021 (MYCS 2021)**
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171. S. Trano, M. Gandolfo, L. Fagioliari, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
Polymer electrolytes for potassium batteries in the SYNERGY project framework
in: **Merck Young Chemists' Symposium 2021 (MYCS 2021)**
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170. A. Mangini, J. Amici, D. Versaci, D. Dessantis, A. Marchisio, **F. Bella**, C. Francia, S. Bodoardo
New polymer electrolytes for Li-O₂ batteries
in: **NanoInnovation 2021**
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169. L. Fagioliari, D. Versaci, F. Di Berardino, M. Gandolfo, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
Exploring promising materials platforms for potassium batteries
in: **NanoInnovation 2021**
Invited talk – Rome (Italy), 21-24/09/2021
168. D. Versaci, I. Canale, S. Goswami, J. Amici, **F. Bella**, C. Francia, L. Pereira, S. Bodoardo
MoS₂/PANI composite as suitable functional interlayer for Li-S batteries
in: **XXVII Congresso Nazionale della Società Chimica Italiana**
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167. A. Mangini, M. Alidoost, F. Caldera, J. Amici, D. Versaci, L. Fagioliari, A. Anceschi, F. Trotta, **F. Bella**, C. Francia, S. Bodoardo
Li-ion batteries with innovative silicon anodes: study of electrolytes based on carbonates
in: **XXVII Congresso Nazionale della Società Chimica Italiana**
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166. A. Mangini, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
An overview on Li-N₂ cells for ammonia production
in: **XXVII Congresso Nazionale della Società Chimica Italiana**
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165. L. Fagioliari, M. Bonomo, S. Galliano, G. Viscardi, C. Barolo, **F. Bella**
Electrodes and electrolytes for aqueous dye-sensitized solar cells
in: **XXVII Congresso Nazionale della Società Chimica Italiana**
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164. L. Fagioliari, F. Di Berardino, D. Versaci, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
A preliminary investigation on MoS₂ as an anode for potassium batteries
in: **XXVII Congresso Nazionale della Società Chimica Italiana**
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163. P. Prete, T. Tabanelli, **F. Bella**, A. Proto, R. Cucciniello
Green synthesis of glycerol-derived surfactants and carbonates for environmental applications
in: **XXVII Congresso Nazionale della Società Chimica Italiana**
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162. L. Fagioliari, D. Versaci, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
An exploratory study of electrodes suitable for potassium-based batteries
in: **EUROMAT 2021**
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161. J. Amici, S. Siccardi, D. Versaci, D. Dessantis, A. Marchisio, R. Colombo, A. Mangini, L. Fagioliari, S. Trano, M. L. Para, **F. Bella**, C. Francia, S. Bodoardo
Towards safer post Li-ion technologies

- in: **XII Congresso Nazionale dell'Associazione Italiana di Chimica per Ingegneria**
Talk – Reggio Calabria (Italy), 05-08/09/2021
160. A. Mangini, M. Alidoost, D. Versaci, L. Fagiolari, J. Amici, **F. Bella**, C. Francia, S. Bodoardo
Li-ion batteries with silicon anodes: study of innovative electrolytes based on carbonates
in: **72th Annual ISE Meeting**
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159. L. Fagiolari, D. Versaci, J. Amici, C. Francia, S. Bodoardo, **F. Bella**
An exploratory study of electrode materials suitable for potassium-based batteries
in: **72th Annual ISE Meeting**
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158. J. Amici, C. A. Calderón, D. Versaci, D. Dessantis, A. Marchisio, R. Colombo, L. Fagiolari, A. Mangini, M. L. Para, S. Siccardi, M. Alidoost, P. Di Prima, G. Luque, D. Barraco, E. Leiva, **F. Bella**, C. Francia, S. Bodoardo
Composite solid electrolytes toward safer lithium-metal cells
in: **72th Annual ISE Meeting**
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157. R. Colombo, D. Versaci, J. Amici, S. Bodoardo, C. Francia, **F. Bella**, N. Garino
Innovative hybrid high voltage electrodes based on LMNO/LFP materials for lithium ion batteries
in: **72th Annual ISE Meeting**
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156. R. Colombo, D. Versaci, J. Amici, S. Bodoardo, C. Francia, **F. Bella**, N. Garino, E. Quartarone
A double-layered sulfur cathode exploiting the effect of high entropy oxides synthesized by microwave irradiation for excellent performances of lithium–sulfur batteries
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155. N. Pirrone, A. Monticelli, **F. Bella**, S. Hernandez
Photoelectrochemical systems at the state-of-the-art for sustainable H₂ production: literature review and proof-of-concept
in: **Solar Power Technologies (SPTECH 2021)**
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154. M. Bonomo, N. Mariotti, L. Fagiolari, N. Barbero, S. Galliano, A. Y. Segura Zarate, G. Viscardi, C. Gerbaldi, **F. Bella**, C. Barolo
Innovative approaches toward fully sustainable dye-sensitized solar cells
in: **Solar Power Technologies (SPTECH 2021)**
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153. R. Cucciniello, G. Piana, M. Ricciardi, A. Proto, C. Gerbaldi, **F. Bella**
Bio-based poly(glycidylether)s as electrolytes for sodium batteries
in: **8th Workshop Nazionale del Gruppo Interdivisionale di Green Chemistry – Chimica Sostenibile**
Poster – Virtual meeting, 29/09/2020
152. G. Lingua, M. Falco, **F. Bella**, G. Meligrana, A. S. Shaplov, C. Gerbaldi
Innovative single-ion conducting solid electrolytes for safe, high performing energy storage devices
in: **Le Studium Conference – Towards Futuristic Energy Storage; paving its way through Supercapacitors, Li-ion batteries and beyond**

Talk – Tours (France), 22-24/01/2020

151. M. Falco, L. Castro, E. Zanchi, T. Platini, J. R. Nair, **F. Bella**, G. Meligrana, F. Smeacetto, C. Gerbaldi
Crosslinked composite polymer electrolytes with super Li-ion conductive ceramic materials as electrolytes for lithium batteries
in: ***The 19th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications (PowerMEMS 2019)***
Talk – Kraków (Poland), 02-06/12/2019
150. F. Colò, M. Falco, G. Piana, **F. Bella**, G. Meligrana, C. Gerbaldi
Development and characterization of polymer-based electrolytes and nanostructured electrodes for energy storage devices
in: ***The 19th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications (PowerMEMS 2019)***
Talk – Kraków (Poland), 02-06/12/2019
149. L. Fagiolari, M. Bonomo, A. Cognetti, C. Gerbaldi, C. Barolo, **F. Bella**
 TiO_2 -photoanodes from unconventional pastes for aqueous dye-sensitized solar cells
in: ***Merck Young Chemists' Symposium 2019 (MYCS 2019)***
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148. M. Ricciardi, A. Proto, O. Motta, C. Pironti, I. Zarrella, L. Di Filippo, R. Cucciniello, **F. Bella**
Bio-based polymers for sodium-ion batteries
in: ***3rd International Conference on Bio and Nanomaterials (BIONAM 2019)***
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147. G. Lingua, M. Falco, **F. Bella**, G. Meligrana, A. S. Shaplov, C. Gerbaldi
Innovative single-ion conducting solid electrolytes for safe, high performing energy storage devices
in: ***Giornate dell'Elettrochimica Italiana (GEI 2019)***
Poster – Padua (Italy), 08-12/09/2019
146. M. Bonomo, L. Fagiolari, **F. Bella**, G. Viscardi, C. Gerbaldi, C. Barolo
Electrochemical impedance spectroscopy: a powerful tool to unveil the charge transport/recombination processes in aqueous dye-sensitized solar cells
in: ***Giornate dell'Elettrochimica Italiana (GEI 2019)***
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145. F. Colò, A. B. Muñoz-García, **F. Bella**, G. Meligrana, M. Di Carli, M. Pavone, C. Gerbaldi
Safe polymer electrolytes and high performing anode materials for Na-based secondary batteries
in: ***Giornate dell'Elettrochimica Italiana (GEI 2019)***
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144. L. Fagiolari, C. Gerbaldi, **F. Bella**
Emerging strategies towards ambient condition fabrication of perovskite solar cells
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143. M. Falco, L. Castro, **F. Bella**, G. Meligrana, F. Smeacetto, I. Cerri, C. Gerbaldi
UV-crosslinked composite polymer electrolyte for high-rate, ambient temperature Li-based batteries
in: ***Giornate dell'Elettrochimica Italiana (GEI 2019)***
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142. L. Fagiolari, M. Bonomo, A. Cognetti, C. Gerbaldi, C. Barolo, **F. Bella**
Photoanodes for aqueous dye-sensitized solar cells: effect of different TiO_2 pastes
in: ***Giornate dell'Elettrochimica Italiana (GEI 2019)***

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141. **F. Bella**, S. Galliano, M. Falco, L. Fagioli, G. Viscardi, M. Grätzel, C. Gerbaldi, C. Barolo
Biosourced hydrogel electrolytes for aqueous solar cells
in: **European Polymer Congress 2019 (EPF 2019)**
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140. M. Falco, L. Castro, J. R. Nair, **F. Bella**, F. Bardè, G. Meligrana, C. Gerbaldi
UV crosslinked composite polymer electrolyte for high-rate, ambient temperature lithium batteries
in: **European Polymer Congress 2019 (EPF 2019)**
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139. G. Meligrana, L. Zolin, **F. Bella**, F. Colò, M. Falco, G. Piana, M. Destro, J. R. Nair, C. Gerbaldi
Biosourced polymers and lignocellulosic materials for the next-generation of eco-friendly
electrochemical energy storage and conversion devices
in: **European Polymer Congress 2019 (EPF 2019)**
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138. F. Colò, G. Piana, M. Falco, **F. Bella**, G. Meligrana, C. Gerbaldi
Solid-like polymer electrolytes for safe, low-cost and durable sodium-ion batteries working at
ambient temperature
in: **European Polymer Congress 2019 (EPF 2019)**
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137. M. Falco, F. Colò, G. Lingua, **F. Bella**, G. Meligrana, C. Gerbaldi
Towards solid batteries operating at ambient temperature: safe, highly conducting polymer
electrolytes based on cross-linked polymer matrixes
in: **European Polymer Congress 2019 (EPF 2019)**
Keynote – Crete (Greece), 09-14/06/2019
136. F. Colò, M. Falco, G. Piana, G. Lingua, E. Maruccia, **F. Bella**, G. Meligrana, M. Di Carli, C. Gerbaldi
Safe polymer electrolytes and high performing anode materials for Na-based secondary batteries
in: **NanoInnovation 2019**
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135. C. Barolo, **F. Bella**, S. Galliano, L. Fagioli, M. Bonomo, G. Boschloo, M. Grätzel, C. Gerbaldi, G. Viscardi
Optimizing hydrogel electrolytes for dye-sensitized solar cells
in: **11th International Conference on Hybrid and Organic Photovoltaics (HOPV19)**
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134. A. Scalia, A. Varzi, P. Zaccagnini, A. Lamberti, C. Gerbaldi, **F. Bella**, E. Tresso, S. Passerini
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132. E. Maruccia, **F. Bella**, S. Galliano, V. Cauda, C. Barolo, C. Gerbaldi

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121. M. Falco, J. R. Nair, G. Piana, F. Colò, **F. Bella**, G. Meligrana, C. Gerbaldi
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80. G. Griffini, D. Pintossi, **F. Bella**, A. Colombo, J. P. Correa-Baena, M. Graetzel, A. Hagfeldt, M. Levi, C. Dragonetti, C. Gerbaldi, S. Turri
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55. C. Gerbaldi, L. Zolin, J. R. Nair, **F. Bella**, G. Meligrana, M. Destro, D. Beneventi
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54. C. Gerbaldi, J. R. Nair, L. Porcarelli, **F. Bella**, G. Meligrana, R. Lin, S. Fantini, G. Maresca, M. Moreno, G. B. Appeteccchi
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53. G. Meligrana, F. Colò, J. R. Nair, **F. Bella**, M. Destro, S. Fiorilli, C. Gerbaldi
 Innovative and functional materials for green and safe large-scale Li/Na-based energy storage
 in: **15th International Symposium on Polymer Electrolytes (ISPE-XV)**
 Poster – Uppsala (Sweden), 15-19/08/2016
52. J. R. Nair, L. Porcarelli, **F. Bella**, R. Lin, S. Fantini, G. Maresca, M. Moreno, G. B. Appeteccchi, C. Gerbaldi
 New insights towards aging resistant lithium polymer batteries for wide temperature applications
 in: **ENERCHEM-1**
 Poster – Florence (Italy), 18-20/02/2016
51. L. Zolin, J. R. Nair, **F. Bella**, G. Meligrana, P. V. Jagdale, I. Cannavaro, A. Tagliaferro, D. Chaussy, D. Beneventi, C. Gerbaldi
 A simple route towards next-gen green energy storage by fibre-based self-supporting electrodes and a truly solid polymer electrolyte
 in: **ENERCHEM-1**
 Poster – Florence (Italy), 18-20/02/2016
50. L. Porcarelli, A. S. Shaplov, M. Salsamendi, J. R. Nair, **F. Bella**, Y. S. Vygodskii, D. Mecerreyes, C. Gerbaldi
 New polymeric single-ion conductors for rechargeable lithium batteries
 in: **ENERCHEM-1**
 Poster – Florence (Italy), 18-20/02/2016
49. F. Colò, G. Meligrana, J. R. Nair, **F. Bella**, A. Lamberti, M. Destro, S. Fiorilli, P. P. Pescarmona, C. Gerbaldi
 Innovative and functional materials for green and safe Na-ion large-scale energy storage
 in: **ENERCHEM-1**
 Poster – Florence (Italy), 18-20/02/2016
48. S. Galliano, **F. Bella**, C. Barolo, C. Gerbaldi, G. Viscardi
 Water-based electrolytes in hybrid solar cells: from liquid to gel formulations
 in: **ENERCHEM-1**
 Talk – Florence (Italy), 18-20/02/2016
47. A. Bianco Prevot, P. Avetta, D. Fabbri, A. Arques, L. Carlos, E. Laurenti, **F. Bella**
 Bio-based substances isolated from green compost: application in wastewater treatment
 in: **16th European Meeting on Environmental Chemistry (EMEC16)**
 Talk – Turin (Italy), 30/11-03/12/2015
46. G. Giacoma, S. Galliano, C. Barolo, C. Gerbaldi, M. Grätzel, **F. Bella**
 Aqueous electrolytes for dye-sensitized solar cells
 in: **XV Sigma-Aldrich Young Chemists Symposium (SAYCS 2015)**
 Poster – Rimini (Italy), 27-29/10/2015
45. S. Galliano, N. Barbero, V. Gianotti, C. Gerbaldi, C. Barolo, **F. Bella**
 Multivariate approaches for dye-sensitized solar cells

- in: **XV Sigma-Aldrich Young Chemists Symposium (SAYCS 2015)**
Talk – Rimini (Italy), 27-29/10/2015
44. A. Lamberti, A. Sacco, S. Bianco, A. Virga, A. Chiadò, **F. Bella**, A. Chiodoni, K. Bejtka, P. Rivolo, E. Tresso, F. Giorgis, C. F. Pirri
Multi-functional TiO₂ nanotubes arrays by anodic oxidation: from energy to bio-sensing
in: **XV Sigma-Aldrich Young Chemists Symposium (SAYCS 2015)**
Talk – Rimini (Italy), 27-29/10/2015
43. L. Porcarelli, A. S. Shaplov, M. Salsamendi, **F. Bella**, J. R. Nair, D. Mecerreyes, C. Gerbaldi
New polymeric single-ion conductors for rechargeable lithium-battery
in: **XV Sigma-Aldrich Young Chemists Symposium (SAYCS 2015)**
Talk – Rimini (Italy), 27-29/10/2015
42. F. Colò, **F. Bella**, J. R. Nair, M. Destro, G. Meligrana, C. Gerbaldi
Polymer electrolytes for green, safe and robust all solid Na-ion batteries
in: **XV Sigma-Aldrich Young Chemists Symposium (SAYCS 2015)**
Talk – Rimini (Italy), 27-29/10/2015
41. J. R. Nair, L. Porcarelli, **F. Bella**, F. Colò, G. Meligrana, C. Gerbaldi
Towards aging resistant lithium polymer batteries for wide temperature applications
in: **228th ECS Meeting**
Talk – Phoenix (USA), 11-15/10/2015
40. G. Meligrana, F. Colò, **F. Bella**, A. Lamberti, M. Destro, J. R. Nair, S. Fiorilli, P. Pescarmona, C. Gerbaldi
Nanostructured anode materials for high-energy Li-/Na-ion large-scale energy storage
in: **Giornate dell'Elettrochimica Italiana (GEI 2015)**
Poster – Bertinoro (Italy), 20-24/09/2015
39. J. R. Nair, L. Porcarelli, **F. Bella**, R. Lin, S. Fantini, G. Maresca, M. Moreno, G. Appetecchi, C. Gerbaldi
New insights in aging resistant lithium polymer batteries for highly stressful applications
in: **Giornate dell'Elettrochimica Italiana (GEI 2015)**
Talk – Bertinoro (Italy), 20-24/09/2015
38. C. Gerbaldi, S. Galliano, C. Barolo, **F. Bella**
Aqueous photovoltaics: a new era in third generation devices
in: **Giornate dell'Elettrochimica Italiana (GEI 2015)**
Talk – Bertinoro (Italy), 20-24/09/2015
37. F. Colò, **F. Bella**, J. R. Nair, M. Destro, G. Meligrana, C. Gerbaldi
Polymer electrolytes for green, safe and robust all-solid Na-ion batteries
in: **Giornate dell'Elettrochimica Italiana (GEI 2015)**
Talk – Bertinoro (Italy), 20-24/09/2015
36. S. Galliano, **F. Bella**, J. R. Nair, G. Viscardi, C. Gerbaldi, C. Barolo
From organic solvents to water: a more sustainable approach toward industrially-upscalable hybrid solar cells
in: **XIX Congresso Nazionale della Divisione di Chimica Industriale della Società Chimica Italiana**
Talk – Salerno (Italy), 14-16/09/2015
35. J. R. Nair, **F. Bella**, L. Porcarelli, F. Colò, M. Destro, G. Meligrana, C. Gerbaldi
Photo-cured polymer electrolyte membranes for energy storage and conversion systems

- in: ***Third International Conference on Membranes (ICM-2015)***
Invited talk – Kochi (India), 21-24/08/2015
34. **F. Bella**, A. Lamberti, J. R. Nair, S. Bianco, C. Gerbaldi, E. Tresso, C. F. Pirri
Nanostructured photoelectrodes and polymeric nanointerfaces engineering: the critical transition from rigid to flexible dye-sensitized solar cells
in: ***15th International Conference on Nanotechnology (IEEE NANO 2015)***
Talk – Rome (Italy), 27-30/07/2015
33. J. R. Nair, **F. Bella**, L. Porcarelli, F. Colò, G. Meligrana, C. Gerbaldi
Novel polymer electrolyte membranes for energy storage and conversion systems
in: ***3rd Indo-Italian Workshop on Electrochemistry for Energy & Health***
Talk – Delhi (India), 02-03/07/2015
32. G. Viscardi, S. Galliano, M. Falco, G. Giacoma, J. R. Nair, C. Gerbaldi, C. Barolo, **F. Bella**
100% aqueous dye-sensitized solar cells: a starting point for the choice of dyes and iodine salts
in: ***International Conference on Hybrid and Organic Photovoltaics 2015 (HOPV15)***
Talk – Rome (Italy), 10-13/05/2015
31. **F. Bella**, S. Galliano, N. Barbero, C. Gerbaldi, V. Gianotti, G. Viscardi, C. Barolo
Is it possible to simultaneously evaluate all the experimental parameters and their relative importance in a DSSC?
in: ***International Conference on Hybrid and Organic Photovoltaics 2015 (HOPV15)***
Poster – Rome (Italy), 10-13/05/2015
30. G. Griffini, **F. Bella**, F. Nisic, C. Dragonetti, D. Roberto, R. Bongiovanni, S. Turri
Multifunctional down-shifting polymeric coatings for highly stable and efficient organic dye-sensitized solar cells
in: ***Fourth International Conference on Multifunctional, Hybrid and Nanomaterials (Hybrid Materials 2015)***
Talk – Sitges (Spain), 09-13/03/2015
29. F. Colò, M. Di Stefano, M. Destro, **F. Bella**, N. Penazzi, G. Meligrana, J. R. Nair, C. Gerbaldi
Novel cellulose-based composite polymer electrolytes for green, efficient and durable Na-ion batteries
in: ***Società Chimica Italiana & Sigma-Aldrich Young Chemists Symposium (SCI&SAYCS, 14th Edition)***
Poster – Riccione (Italy), 27-29/10/2014
28. S. Galliano, G. Favaro, **F. Bella**, N. Barbero, R. Buscaino, C. Gerbaldi, M. Milanesio, V. Gianotti, C. Barolo, G. Viscardi
Optimization in dye sensitized solar cells: a multiparametric approach
in: ***Photovoltaics: new frontiers and applications***
Talk – Lecce (Italy), 16-18/10/2014
27. E. Tresso, S. Bianco, **F. Bella**, A. Lamberti, A. Sacco, M. Quaglio, A. Chiodoni, R. Bongiovanni, F. Cappelluti, C. F. Pirri
Flexible dye-sensitized solar cell combining light-cured polymer network, metallic grids and vertically aligned TiO₂ nanotube array
in: ***Photovoltaics: new frontiers and applications***
Talk – Lecce (Italy), 16-18/10/2014
26. J. R. Nair, L. Porcarelli, **F. Bella**, N. Penazzi, C. Gerbaldi
Novel UV-cured multifunctional polymer electrolytes for efficient energy storage and production

- devices
in: **10th European Symposium on Electrochemical Engineering – 10th esee**
Talk – Chia (Italy), 28/09-02/10/2014
25. **F. Bella**, A. Chiappone, J. R. Nair, G. Meligrana, C. Gerbaldi
Novel cellulose-based composite polymer electrolytes for green, efficient and durable energy conversion and storage devices
in: **10th European Symposium on Electrochemical Engineering – 10th esee**
Talk – Chia (Italy), 28/09-02/10/2014
24. R. Bongiovanni, **F. Bella**
In situ photopolymerization for making DSSC quasi solid electrolytes and assembling the cell
in: **3rd European Symposium of Photopolymer Science (ESPS 2014)**
Invited talk – Vienna (Austria), 09-12/09/2014
23. A. Chiappone, **F. Bella**, J. R. Nair, G. Meligrana, R. Bongiovanni, C. Gerbaldi
Nanocellulose-based polymer electrolytes for highly efficient quasi-solid dye sensitized solar cells
in: **65th Annual Meeting of the International Society of Electrochemistry**
Poster – Lausanne (Switzerland), 31/08-05/09/2014
22. J. R. Nair, C. Gerbaldi, L. Porcarelli, **F. Bella**, M. Destro, N. Penazzi
Novel multipurpose polymer electrolytes for smart and efficient energy power sources
in: **65th Annual Meeting of the International Society of Electrochemistry**
Poster – Lausanne (Switzerland), 31/08-05/09/2014
21. **F. Bella**, S. Galliano, C. Gerbaldi, C. Barolo
Design of experiments (DoE): a multivariate approach to dye-sensitized solar cells comprehension and optimization
in: **65th Annual Meeting of the International Society of Electrochemistry**
Poster – Lausanne (Switzerland), 31/08-05/09/2014
20. F. Colò, M. Di Stefano, M. Destro, **F. Bella**, N. Penazzi, J. R. Nair, G. Meligrana, C. Gerbaldi
Novel cellulose-based composite polymer electrolytes for green all-solid Na-ion batteries
in: **65th Annual Meeting of the International Society of Electrochemistry**
Poster – Lausanne (Switzerland), 31/08-05/09/2014
19. L. Porcarelli, J. R. Nair, C. Gerbaldi, **F. Bella**, M. Destro, N. Penazzi
Novel multipurpose polymer electrolytes for smart and efficient energy power sources
in: **2014 Green Chemistry Gordon Conference - Industrial Successes and Challenges**
Poster – Hong Kong (China), 27/07-01/08/2014
18. **F. Bella**, A. Lamberti, A. Sacco, S. Bianco, A. Chiodoni, C. F. Pirri, R. Bongiovanni, E. Tresso
Towards flexible dye-sensitized solar cell combining vertically aligned TiO₂ nanotube array and light-cured polymer network
in: **6th International Conference on Hybrid Inorganic-Organic Photovoltaics (HOPV14)**
Abstract – Lausanne (Switzerland), 11-14/05/2014
17. V. Gianotti, **F. Bella**, C. Barolo, G. Favaro, S. Galliano, M. Milanesio, E. Tresso, G. Viscardi
Design of experiments (DoE): a multivariate approach to DSC optimization
in: **6th International Conference on Hybrid Inorganic-Organic Photovoltaics (HOPV14)**
Poster – Lausanne (Switzerland), 11-14/05/2014
16. L. Porcarelli, J. R. Nair, **F. Bella**, C. Gerbaldi, N. Penazzi

- Development of multipurpose PEO-based polymer electrolytes for smart and energy efficient devices
in: **13° Sigma Aldrich Young Chemists Symposium - 13° S.A.Y.C.S.**
Poster – Riccione (Italy), 28-30/10/2013
15. A. Chiappone, **F. Bella**, C. Gerbaldi, J.R. Nair, R. Bongiovanni
Nanoscale microfibrillated cellulose reinforced polymer electrolytes for sustainable energy devices
in: **4th International Conference on Biodegradable and Biobased Polymers (BIOPOL-2013)**
Poster – Rome (Italy), 01-03/10/2013
14. **F. Bella**, J. R. Nair, A. Chiappone, C. Gerbaldi, R. Bongiovanni
Novel cellulose-based composite gel-polymer electrolytes for green, efficient and durable dye-sensitized solar cells
in: **Giornate dell'Elettrochimica Italiana - GEI 2013**
Talk – Pavia (Italy), 22-27/09/2013
13. S. Bianco, A. Lamberti, A. Sacco, **F. Bella**, D. Pugliese, R. Gazia, M. Quaglio, R. Bongiovanni, E. Tresso
Metal oxide nanostructures and quasi-solid electrolytes for dye-sensitized solar cells
in: **SuNEC 2013 – Sun New Energy Conference**
Talk – Santa Flavia (Italy), 10-12/09/2013
12. S. Bodoardo, J.R. Nair, C. Gerbaldi, C. Francia, M. Destro, G. Meligrana, F. Di Lupo, A. Chiappone, **F. Bella**, N. Garino, S. Zanarini, S. Casino, J. Zeng, J. Amici, L. Zolin, L. Porcarelli, N. Penazzi
Polymer electrolytes for safe lithium ion, electrochromic and photovoltaic applications
in: **64th Annual Meeting of the International Society of Electrochemistry**
Talk – Santiago de Queretaro (Mexico), 08-13/09/2013
11. D. Pugliese, A. Lamberti, A. Sacco, **F. Bella**, V. Cauda, S. Bianco
ZnO multipod nanostructures for dye-sensitized solar cell application
in: **International Conference on Advanced Complex Inorganic Nanomaterials**
Poster – Namur (Belgium), 15-19/07/2013
10. D. Pugliese, A. Lamberti, A. Sacco, **F. Bella**, V. Cauda, Quaglio M., Garino N., S. Bianco
Multipod-like zinc oxide nanostructures as photoanodes in dye-sensitized solar cells
in: **20th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM 2013)**
Talk – Turin (Italy), 30/06-05/07/2013
9. P. Avetta, A. Bianco Prevot, C. Barolo, **F. Bella**, E. Laurenti, E. Montoneri, A. Arques, L. Carlos, M. C. González
Use of soluble bio-based substances isolated from urban biowastes as organic photocatalysts for the degradation of 4-chlorophenol
in: **14th EuCheMS International Conference on Chemistry and the Environment (ICCE 2013)**
Poster – Barcelona (Spain), 25-28/06/2013
8. R. Bongiovanni, **F. Bella**
Thermoset membranes as electrolytes for dye sensitized solar cell
in: **Baekeland 2013 Symposium: 4th International Symposium on Thermosets**
Invited talk – Niagara Falls (Canada), 23-27/06/2013
7. **F. Bella**, E. D. Ozzello, A. Sacco, S. Bianco, R. Bongiovanni

- Free-radical photopolymerization of acrylic/methacrylic polymer electrolyte membranes for dye-sensitized solar cells
in: ***European Polymer Congress EPF 2013***
Talk – Pisa (Italy), 16-21/06/2013
6. J. R. Nair, **F. Bella**, C. Gerbaldi
Development of multipurpose ethylene oxide based polymer electrolytes for smart and energy efficient devices
in: ***Frontiers in Polymer Science***
Poster – Sitges (Spain), 21-23/05/2013
5. D. Pugliese, A. Lamberti, A. Sacco, **F. Bella**, V. Cauda, S. Bianco, E. Tresso
ZnO multipods as promising nanostructured photoanodes for dye-sensitized solar cell
in: ***Hybrid and Organic Photovoltaics Conference (HOPV-13)***
Poster – Seville (Spain), 05-08/05/2013
4. S. Bianco, A. Lamberti, D. Pugliese, A. Sacco, **F. Bella**, R. Gazia, M. Quaglio, E. Tresso, C. F. Pirri
Metal oxide nanostructures for the fabrication of efficient DSC photoanodes
in: ***NIS colloquium: Dye-sensitized Solar Cells: from materials to devices***
Talk – Turin (Italy), 31/01-01/02/2013
3. **F. Bella**, D. Pugliese, J.R. Nair, S. Bianco, C. Gerbaldi, R. Bongiovanni
Photopolymerisation of acrylic monomers for quasi-solid dye-sensitized solar cells
in: ***VIII Convegno Nazionale dell'Associazione Italiana di Chimica per Ingegneria***
Poster – Aci Castello (Italy), 16-19/09/2012
2. S. Bianco, **F. Bella**, D. Pugliese, J. R. Nair, C. Gerbaldi, E. Tresso, C. F. Pirri, R. Bongiovanni
A novel UV-cured quasi-solid polymer electrolyte for dye-sensitized solar cell
in: ***Second International Meeting on Organic Materials for a Better Future (FUTURMAT2)***
Talk – Brindisi (Italy), 16-20/09/2012
1. P. Avetta, C. Barolo, **F. Bella**, A. Bianco Prevot, E. Montoneri
Photodegradation of 4-chlorophenol sensitized by waste derived soluble organic substances using experimental design
in: ***XXIV Congresso Nazionale della Società Chimica Italiana***
Poster – Lecce (Italy), 11-16/09/2011

Supervised students list

- Mengmeng Wang (MSc in Management Engineering @PoliTO, 2023): *Social commerce business model and innovation.*
- Antonio Campanale (MSc in Energetic and Nuclear Engineering @PoliTO, 2023): *Analysis and optimization of cobalt-free cathodes for new generation lithium-ion batteries.*
- Daniele Andrea De Vecchi (MSc in Materials Engineering @PoliTO, 2022): *Electrochemical characterization of electrode materials for potassium batteries.*
- Giorgio Montinaro (MSc in Materials Engineering @PoliTO, 2022): *Sustainable gigafactories for the production of lithium batteries: development of materials and/or prototypes.*
- Marco Giolitti (MSc in Energetic and Nuclear Engineering @PoliTO, 2022): *Surface passivation strategies of perovskite solar cells.*
- David Garagnani (MSc in Materials Engineering @PoliTO, 2022): *Lignin as filler for*

enhanced gel polymer electrolyte in potassium metal battery.

- Emanuele Nettis (MSc in Materials Engineering @PoliTO, 2022): *Integrated energy harvesting and storage device: dye-sensitized solar cell with Cu(I/II)-based electrolyte and carbon-based aqueous supercapacitor.*
- Michele Randine (MSc in Materials Engineering @PoliTO, 2022): *Recycling lithium-ion batteries: circular economy approach and state of art.*
- Giovanni Marco Carrabba (MSc in Materials Engineering @PoliTO, 2022): *Dye solar cells with copper-based polymer electrolytes.*
- Giorgia Morone (MSc in Chemical and Sustainable Processes Engineering @PoliTO, 2022): *Lignin-based composite polymer electrolytes for potassium batteries.*
- Daniela Landi (BSc in Chemical and Food Engineering @PoliTO, 2021): *Microplastics: a new challenge for environmental protection.*
- Mattia Prandi (BSc in Materials Engineering @PoliTO, 2021): *Microplastics: a new challenge for environmental protection.*
- Daniele Congiu (BSc in Materials Engineering @PoliTO, 2021): *Polymer electrolytes for rechargeable aluminum batteries.*
- Alessio Jacopo Rizzo (BSc in Energetic Engineering @PoliTO, 2021): *Photovoltaic technologies in airport environments.*
- Elisabetta Giove (MSc in Energetic and Nuclear Engineering @PoliTO, 2021): *Sustainable polymer electrolytes for potassium ion batteries.*
- Gabriele Maffei (BSc in Materials Engineering @PoliTO, 2021): *Innovative floating photovoltaic solutions suitable for salt dynamic environments.*
- Federico Giraldo (MSc in Energetic and Nuclear Engineering @PoliTO, 2021): *Unveiling cathodic and anodic materials for potassium-based batteries.*
- Matteo Gandolfo (MSc in Materials Engineering @PoliTO, 2021): *Gel polymer electrolytes for potassium batteries: development and characterization.*
- Stefano Fuda (MSc in Energetic and Nuclear Engineering @PoliTO, 2021): *Deep eutectic solvents for rechargeable batteries.*
- Noemi Pirrone (MSc in Chemical and Sustainable Processes Engineering @PoliTO, 2021): *Photoelectrochemical systems at the state-of-the-art for the sustainable H₂ and syngas production: literature review and proof-of-concept.*
- Federica Di Berardino (MSc in Materials Engineering @PoliTO, 2021): *Preliminary investigation on anodes for potassium batteries.*
- Elena Basciu (BSc in Chemical and Food Engineering @PoliTO, 2021): *Microplastics: a new challenge for environmental protection.*
- Matteo Sampo' (MSc in Energetic and Nuclear Engineering @PoliTO, 2021): *Processes for the integration of supercapacitors and solar cells.*
- Jessica Pizzo (BSc in Chemical and Food Engineering @PoliTO, 2020): *Lignin as a material platform in the field of photovoltaic cells.*
- Virginia Di Giovanni (BSc in Chemical and Food Engineering @PoliTO, 2020): *3D printing for battery manufacturing.*
- Alessio Bellio (BSc in Energetic Engineering @PoliTO, 2020): *The transition from laboratory to industrial production of perovskite solar cells.*
- Vincenzo Marino (BSc in Chemical and Food Engineering @PoliTO, 2020): *Magnesium batteries: advances and perspectives of a new technology.*
- Gretta Marija Nikkare (BSc in Energetic Engineering @PoliTO, 2020): *Characterization of dye-sensitized solar cells (DSSC) and their future applications.*
- Sebastiano Frandino (BSc in Chemical and Food Engineering @PoliTO, 2020): *Lignin as*

a material platform in the field of batteries.

- Erica Varaia (MSc in Chemical and Sustainable Processes Engineering @PoliTO, 2020): *PEDOT in dye-sensitized solar cells: an electrode and a hole-transporting material.*
- Stefano Primo (MSc in Materials Engineering @PoliTO, 2020): *Preliminary investigation of compact TiO₂ layers as blocking layer in aqueous solar cells.*
- Luca Barotto (BSc in Energetic Engineering @PoliTO, 2020): *Lignin in the photovoltaic field.*
- Giacomo Isolano (MSc in Chemical and Sustainable Processes Engineering @PoliTO, 2019): *Biomass-derived carbon-based cathodes for aqueous photovoltaic cells.*
- Luca Carallo (BSc in Energetic Engineering @PoliTO, 2019): *Organic solar cells on paper substrates.*
- Laura Bonsignorio (BSc in Energetic Engineering @PoliTO, 2019): *Dye-sensitized solar cells: integration in smart windows.*
- Ahmed Hashish (BSc in Energetic Engineering @PoliTO, 2019): *Third generation solar cells: from laboratory to industrial production.*
- Virginia Alberti (MSc in Chemical and Sustainable Processes Engineering @PoliTO, 2019): *UV-curing of aqueous polymer electrolytes for dye-sensitized solar cells.*
- Alice Benedetto Mas (BSc in Chemical and Food Engineering @PoliTO, 2019): *Implantable energy devices in the medical field: materials and technology.*
- Florence Merlo (BSc in Chemical and Food Engineering @PoliTO, 2019): *Lignin as a platform of materials in the field of batteries.*
- Marco Dibenedetto (BSc in Materials Engineering @PoliTO, 2019): *Hydrolysis phenomena in perovskite solar cells: mechanisms and solutions for the future.*
- Alessia Arcieri (BSc in Chemical and Food Engineering @PoliTO, 2019): *Galvanic treatments of silvering of cages for aerospace applications.*
- Ottavio Montauti (BSc in Materials Engineering @PoliTO, 2019): *Perovskite solar cells: from materials to industrial scale-up.*
- Francesca Panaccione (BSc in Energetic Engineering @PoliTO, 2019): *Analysis of perovskite-based third-generation solar cells development.*
- Alisia Chiadò Rana (BSc in Chemical and Food Engineering @PoliTO, 2019): *Implantable medical devices in the medical field: materials and technology.*
- Silvia Pensa (BSc in Chemical and Food Engineering @PoliTO, 2019): *Electrodes for lithium microbatteries.*
- Stefano Saroglia (BSc in Materials Engineering @PoliTO, 2019): *Dye-sensitized solar cells: analysis of active cell materials and investigation of novel cathodes.*
- Ludovica Salerno (BSc in Chemical and Food Engineering @PoliTO, 2019): *Electrodes for lithium microbatteries.*
- Stefano De Luca (BSc in Energetic Engineering @PoliTO, 2019): *Anodic electrodes for rechargeable magnesium batteries.*
- Enrico Colore (BSc in Energetic Engineering @PoliTO, 2019): *Unconventional applications of dye-sensitized solar cells-based photovoltaics.*
- Emilio Pulli (BSc in Energetic Engineering @PoliTO, 2019): *Transparent photovoltaic technologies: current trends towards upscaling.*
- Chiara Sorrentini (BSc in Chemical and Food Engineering @PoliTO, 2019): *Implantable medical devices in the medical field: materials and technology.*
- Alessio Cognetti (MSc in Chemical and Sustainable Processes Engineering @PoliTO, 2019): *Formulation of titanium dioxide pastes for aqueous solar cells.*
- Elena Rozzi (MSc in Energetic and Nuclear Engineering @PoliTO, 2018): *Aqueous solar*

cells: development of platinum-free counter electrodes and feasibility study for the application of this technology.

- Ana Petica (MSc in Chemical and Sustainable Processes Engineering @PoliTO, 2018): *Benzimidazole additives for aqueous electrolytes in dye-sensitized solar cells.*
- Enrico Emanuelli (BSc in Energetic Engineering @PoliTO, 2018): *Progress and challenges of thin-film kesterite solar cells.*
- Cristina Lombardo (BSc in Chemical and Food Engineering @PoliTO, 2018): *Electrolytes for safer lithium batteries.*
- Alberto Bario (BSc in Chemical and Food Engineering @PoliTO, 2018): *Photopolymerization and 3D printing: materials development using unconventional techniques.*
- Chiara Adda (BSc in Chemical and Food Engineering @PoliTO, 2018): *Development of materials to increase the stability of perovskite solar cells.*
- Cesare Miola (BSc in Chemical and Food Engineering @PoliTO, 2018): *Electrode materials for lithium microbatteries.*
- Eugenio Ferrero (BSc in Energetic Engineering @PoliTO, 2018): *Experimental strategies for the reduction of production costs of aqueous solar cells.*
- Diego Orifici (BSc in Construction Engineering @PoliTO, 2018): *Recent developments in glazing for energy production: from photovoltaic glasses to luminescent solar concentrators.*
- Stefano Favero Costa (BSc in Materials Engineering @PoliTO, 2018): *Titanium dioxide nanotubes as sodium battery electrodes.*
- Gabriele Nicoletti (BSc in Energetic Engineering @PoliTO, 2018): *Dye-sensitized solar cells: from laboratory to industrial production.*
- Francesco Pasino (BSc in Energetic Engineering @PoliTO, 2018): *Dye-sensitized solar cells: fabrication and patterning.*
- Mattia Miglietta (BSc in Energetic Engineering @PoliTO, 2018): *Sustainable materials for new generation solar cells.*
- Deborah Marzo (BSc in Chemical and Food Engineering @PoliTO, 2017): *Sustainable materials for new generation solar cells.*
- Nunzia Lauriello (BSc in Chemical and Food Engineering @PoliTO, 2017): *New materials for perovskite solar cells.*
- Anna Gonella (BSc in Materials Engineering @PoliTO, 2017): *Photopolymerization and 3D printing: materials development using unconventional techniques.*
- Paolo Rondine (BSc in Energetic Engineering @PoliTO, 2017): *Sustainable materials for new generation solar cells.*
- Arianna Guglielminotti (BSc in Energetic Engineering @PoliTO, 2017): *New materials for perovskite solar cells.*
- Elisa Maruccia (MSc in Materials Engineering @PoliTO, 2017): *Preparation and characterization of zinc oxide photoelectrodes for aqueous Grätzel solar cells.*
- Diego Longo (BSc in Chemical and Food Engineering @PoliTO, 2017): *Perovskite solar cells: the role of the active material.*
- Marco Gaggiano (BSc in Chemical and Food Engineering @PoliTO, 2017): *Aqueous DSSC: ecosustainable artificial photosynthesis.*
- Samuel Matrella (BSc in Energetic Engineering @PoliTO, 2017): *Sustainable and low-cost technologies for solar cells.*
- Tamara Sergi (BSc in Chemical and Food Engineering @PoliTO, 2016): *Integrated devices for energy conversion and storage.*

- Ana Petica (BSc in Chemical and Food Engineering @PoliTO, 2016): *Polymer electrolytes for new generation batteries.*
- Chiara La Spina (MSc in Energetic and Nuclear Engineering @PoliTO, 2016): *Evaluation of the economic feasibility and environmental sustainability of water-based photoelectrochemical windows.*
- Andrea Tartaglino (BSc in Energetic Engineering @PoliTO, 2015): *Aqueous matrix electrolytes for advanced photovoltaic devices.*
- Stefano De la Pierre des Ambrois (MSc in Materials Engineering @PoliTO, 2014): *Effect of a photopolymerized electrolyte with gradient composition on the interfaces of a DSSC.*
- Arianna Favre (BSc in Materials Engineering @PoliTO, 2013): *Flexible polymeric matrices-based electrodes for photovoltaic devices: flexible photoanodes for DSSC.*
- Renato Pero (BSc in Materials Engineering @PoliTO, 2013): *Fluorinated polymers for dye-sensitized solar cells.*
- Elena Daniela Ozzello (MSc in Materials Engineering @PoliTO, 2012): *Photocured polymer electrolytes for dye-sensitized solar cells.*

Other information

Languages

- English: excellent understanding, speaking and writing ability.
P.E.T. certificate (level B1), obtained *with Merit* (2005)
- Spanish: good understanding and speaking ability

Membership

- Società Chimica Italiana
- European Chemical Society
- Royal Society of Chemistry
- International Society of Electrochemistry
- Electrochemical Society
- Associazione Italiana Chimica per Ingegneria
- Gruppo Italiano di Fotochimica
- Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali

Informatics

- Certificate: E.C.D.L. licence, *full level* (2005)
- Software: Aspen Plus (modeling of chemical processes), Modde (experimental design), Gaussian (theoretical chemistry), Origin (data processing)
- Programming: HTML language

Driving licence

B type, own car

Sports

Tennis, Ski, Futsal, Volley

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