

MARTA FEROCI
ELENCO PUBBLICAZIONI

LAVORI

- 1) A. Curulli, M. Feroci, A. Inesi
"Reactivity of electrogenerated superoxide ion. Part 3. Oxidative cleavage and reduction of some cyclohexanones".
J. Chem. Res. (S), **1993**, 488-489; (*M*), **1993**, 3320-3338.
- 2) F. De Angelis, M. Feroci, A. Inesi
"Reactivity of 2-chloro- and 2-(tosyloxy)cyclohexanones towards anions electrogenerated at carbonium and nitrogen atoms. Electrochemically induced Favorskii rearrangement".
Bull. Soc. Chim. Fr., **1993**, 130, 712-719.
- 3) F. De Angelis, A. Inesi, M. Feroci, R. Nicoletti
"Reaction of electrogenerated dichlorocarbene with methylindoles".
J. Org. Chem., **1995**, 60(2), 445-447.
- 4) M. A. Casadei, S. Cesa, F. Micheletti Moracci, A. Inesi, M. Feroci
"Activation of carbon dioxide by electrogenerated superoxide ion. A new carboxylating reagent".
J. Org. Chem., **1996**, 61(1), 380-383.
- 5) I. Chiarotto, M. Feroci, C. Giomini, A. Inesi
"Reactivity of α,α' -dichloroketones towards anions electrogenerated at carbonium and oxygen atoms. Electrochemically induced Favorskii rearrangement. Part 2"
Bull. Soc. Chim. Fr. **1996**, 133, 167-175.
- 6) M. A. Casadei, S. Cesa, M. Feroci, A. Inesi, L. Rossi, F. Micheletti Moracci
"The O₂- / CO₂ system as mild and safe carboxylating reagent. Synthesis of organic carbonates"
Tetrahedron, **1997**, 53(1), 167-176.
- 7) A. Inesi, L. Rossi, M. Feroci, M. Rizzuto
"Electrochemically-induced Favorskii rearrangement. α,β -Unsaturated amides and esters in the electrochemical reduction of polyhaloketones"
New J. Chem., **1998**, 57-61.
- 8) M. Feroci, A. Inesi, L. Rossi, G. Sleiter
"Electrochemically induced *N*-alkylation of pyrroles"
Eur. J. Org. Chem., **1999**, 955-958.
- 9) M. Feroci, A. Inesi, L. Rossi
"A simple and convenient method for preparation of sulfides"
Synth. Comm., **1999**, 29, 2611-2615.
- 10) M.A. Casadei, S. Cesa, M. Feroci, A. Inesi
"Facile stereoselective conversion of 1,2-diols into alkane-1,2-diyl carbonates"
New J. Chem., **1999**, 4, 433-436.
- 11) M. Feroci, A. Inesi, V. Mucciante, L. Rossi
"New synthesis of oxazolidin-2-ones"
Tetrahedron Lett., **1999**, 40, 6059-6060.
- 12) M. Feroci, A. Inesi, L. Rossi
"The reaction of amines with an electrogenerated base. Improved synthesis of arylcarbamic esters"
Tetrahedron Lett., **2000**, 41, 963-966.
- 13) M. A. Casadei, M. Feroci, A. Inesi, L. Rossi, G. Sotgiu
"The reaction of 1,2-amino alcohols with carbon dioxide in the presence of 2-pyrrolidone electrogenerated base. New synthesis of chiral oxazolidin-2-ones"
J. Org. Chem., **2000**, 65, 4759-4761.

- 14) I. Chiarotto, M. Feroci
"Palladium-catalyzed electrochemical carbonylation of 2-amino-1-alkanols to oxazolidin-2-ones under very mild conditions"
Tetrahedron Lett., **2001**, 42,3451-3453.
- 15) M. Feroci, A. Inesi, L. Rossi, G. Sotgiu
"Electrochemically induced *N*-acryloylation of chiral oxazolidin-2-ones"
Eur. J. Org. Chem., **2001**, 2765-2769.
- 16) M. Feroci, A. Inesi, M. Orsini, L. Rossi, G. Sotgiu
"An efficient electrochemical method for *N*-acryloylation of oxazolidin-2-ones chiral auxiliaries with α, α' -polyhaloketones"
J. Electroanal. Chem., **2001**, 507(1-2), 89-95.
- 17) M. Feroci, A. Inesi, L. Palombi, L. Rossi, G. Sotgiu
"Electrogenerated base induced *N*-acylation of chiral oxazolidin-2-ones"
J. Org. Chem., **2001**, 66(18), 6185-6188.
- 18) Feroci, M.; Inesi, A.; Palombi, L.; Rossi, L.
"Electrochemical generation of chiral oxazolidin-2-ones anions: a new procedure for the highly diastereoselective conjugate addition to nitroalkenes."
Tetrahedron Asymmetry **2001**, 12, 2331-2335.
- 19) Feroci, M.; Inesi, A.; Palombi, L.; Sotgiu, G.
"Electrogenerated base-induced *N*-acylation of chiral oxazolidin-2-ones. 2."
J. Org. Chem., **2002**, 67(5), 1719-1721.
- 20) Palombi, L.; Feroci, M.; Orsini, M.; Rossi, L.; Inesi, A.
"Electrochemical generation of tetraethylammonium *N*-acetoacetyloxazolidin-2-one enolates: an easy access to α -alkylated acetoacetic derivatives."
Tetrahedron Lett., **2002**, 43, 2881-2884.
- 21) A. Inesi, M. Feroci, L. Rossi, G. Sotgiu
"Electrochemical methods for the synthesis and the *N*-acryloylation of oxazolidin-2-ones chiral auxiliaries"
Recent Res. Devel. Organic Chem., **2002**, 6, 75-85.
- 22) V. Mucciante, L. Rossi, M. Feroci, G. Sotgiu
"A safe synthesis of symmetrical carbonates from alkyl halides and tetraethylammonium carbonate"
Synth. Commun. **2002**, 32(8), 1205-1210.
- 23) Feroci, M.; Gennaro, A.; Inesi, A.; Orsini, M.; Palombi, L.
"Synthesis of chiral oxazolidin-2-ones by 1,2-amino alcohols, carbon dioxide and electrogenerated acetonitrile anion"
Tetrahedron Lett., **2002**, 43, 5863-5865.
- 24) Feroci, M.; Inesi, A.; Orsini, M.; Palombi, L.
"Electrochemical carboxylation of *N*-(2-bromopropionyl)-4*R*-phenyloxazolidin-2-one: an efficient route to unsymmetrical methylmalonic ester derivatives"
Organic Letters, **2002**, 4(16), 2617-2620.
- 25) Verdecchia, M.; Feroci, M.; Palombi, L.; Rossi, L.
"A safe and mild synthesis of organic carbonates from alkyl halides and tetrabutylammonium alkyl carbonates"
J. Org. Chem., **2002**, 67,8287-8289.
- 26) Palombi, L.; Feroci, M.; Orsini, M.; Inesi, A.
"Electrochemically-initiated Michael addition of chiral acetoacetic derivatives to methyl vinyl ketone. Stereocontrolled construction of quaternary carbon centers."
Tetrahedron: Asymmetry **2002**, 13(21), 2311-2316.

- 27) Feroci, M.; Casadei, M. A.; Orsini, M.; Palombi, L.; Inesi, A.
"The cyanomethyl anion/carbon dioxide system: an electrogenerated carboxylating reagent. Synthesis of carbamates under mild and safe conditions."
J. Org. Chem., **2003**, *68*, 1548-1551.
- 28) Chiarotto, I.; Feroci, M.
"Selective and Environment Friendly Methodologies Based on the Use of Electrochemistry for Fine Chemical Preparation: an Efficient Synthesis of N,N'-Disubstituted Ureas"
J. Org. Chem., **2003**, *68*, 7137-7139.
- 29) Feroci, M.
"Electrochemical synthesis and N-acylation of oxazolidin-2-ones: recent developments"
Current Topics in Electrochemistry, **2003**, *9*, 207-212.
- 30) Feroci, M.; Orsini, M.; Palombi, L.; Sotgiu, G.; Inesi, A.
"Electrochemically induced hydrogenolysis of 1,1-dibromoalkenes to vinyl bromides"
Electrochim. Acta, **2004**, *49*(4), 635-640.
- 31) Feroci, M.; Orsini, M.; Palombi, L.; Sotgiu, G.; Colapietro, M.; Inesi, A.
"Diastereoselective electrochemical carboxylation of chiral α -bromocarboxylic acid derivatives: an easy access to unsymmetrical alkylmalonic ester derivatives."
J. Org. Chem., **2004**, *69*, 487-494.
- 32) Palombi, L.; Feroci, M.; Orsini, M.; Inesi, A.
"An innovative strategy for electrochemically-promoted addition reaction"
Chem. Commun., **2004**, 1846-1847.
- 33) Rossi, L.; Feroci, M.; Inesi, A.
"The Electrogenerated Cyanomethyl Anion in Organic Synthesis"
Mini-Reviews in Organic Chemistry, **2005**, *2*, 79-90.
- 34) M. Feroci, M. Orsini, L. Palombi, L. Rossi, A. Inesi
"An electrochemical alternative strategy to the synthesis of β -lactams via N-C4 bond formation"
Electrochim. Acta, **2005**, *50*(10), 2029-2036.
- 35) M. Orsini, M. Feroci, G. Sotgiu, A. Inesi.
"Stereoselective electrochemical carboxylation: 2-phenylsuccinates from chiral cinnamic acid derivatives."
Org. Biomol. Chem., **2005**, *3*, 1202-1208.
- 36) M. Feroci, M. Orsini, G. Sotgiu, L. Rossi, A. Inesi
"Electrochemically promoted C-N bond formation from acetylenic amines and CO₂. Synthesis of 5-methylene-1,3-oxazolidin-2-ones."
J. Org. Chem., **2005**, *70*(19), 7795-7798.
- 37) M. Feroci, J. Lessard, M. Orsini, A. Inesi
"Electrogenerated cyanomethyl anion in organic synthesis: a simple diastereoselective synthesis of *cis*-3-alkyl-1-benzyl-4-ethoxycarbonyl- β -lactams"
Tetrahedron Lett. **2005**, *46*(49), 8517-9.
- 38) L. Rossi, M. Feroci, M. Verdecchia, A. Inesi
"Electrogenerated cyanomethyl anion in organic synthesis. Synthesis of 1,3-oxazolidine-2,4-diones"
Lett. Org. Chem., **2005**, *2*(8), 731-733.
- 39) I. Chiarotto, M. Feroci
"Electrosynthesis of heteroaromatic aldehydes by palladium-catalyzed carbonylation of heteroaromatic iodides in the presence of formic acid."
J. Organomet. Chem. **2006**, *691*, 2589-2592.
- 40) M. Feroci, M. Orsini, L. Rossi, G. Sotgiu, A. Inesi
"An electrochemical alternative strategy to the synthesis of β -lactams. Part 2 [1] C3-C4 Bond formation.

Electrochim. Acta **2006**, *51*, 5540-5547.

41) T. Caruso, M. Feroci, A. Inesi, M. Orsini, A. Scettri, L. Palombi
“Electrochemically induced addition reactions in the absence of solvent and supporting electrolyte”
Advanced Synthesis & Catalysis, **2006**, *348*, 1942-1947.

42) A. La Groia, M. Feroci, A. Inesi, L. Rossi
“Electrochemical synthesis of selenocarbonates”
Letters in Organic Chemistry, **2006**, *3*, 854-856.

43) M. Feroci, M. Orsini, L. Rossi, G. Sotgiu, and A. Inesi,
“Electrochemically promoted C-N bond formation from amines and CO₂ in ionic liquid BMIm-BF₄: synthesis of carbamates.”
J. Org. Chem. **2007**, *72*, 200-203.

44) M. Feroci, M. Orsini, L. Palombi, A. Inesi,
“Electrochemically induced Knoevenagel condensation in solvent- and supporting electrolyte-free conditions”
Green Chem. **2007**, *9*, 323-325.

45) L. Rossi, G. Bianchi, M. Feroci, A. Inesi
“Electrochemically induced Aza-Henry reaction: a new, mild, and clean synthesis of α -nitroamines”
Synlett **2007**, 2505-2508.

46) M. Feroci
“Synthesis of β -lactams by 4-exo-tet cyclization process induced by electrogenerated cyanomethyl anion, part 2. Stereochemical implications”
Advanced Synthesis & Catalysis, **2007**, *349*, 2177-2181.

47) M. Feroci, M. Orsini, G. Sotgiu, A. Inesi
“The Knoevenagel reaction in electrochemically activated solvents”
Electrochim. Acta, **2008**, *53*(5), 2346-2354.

48) M. Feroci, I. Chiarotto, M. Orsini, G. Sotgiu, A. Inesi
“Reactivity of electrogenerated N-heterocyclic carbene in room-temperature ionic liquids. Cyclization to 2-azetidinone ring via C3-C4 bond formation.”
Advanced Synthesis & Catalysis, **2008**, *350*, 1355-1359.

49) G. Sotgiu, I. Chiarotto, M. Feroci, M. Orsini, L. Rossi, A. Inesi
“An electrochemical alternative strategy to the synthesis of β -lactams Part 3 [1]. Room-temperature ionic liquids vs molecular organic solvents”
Electrochim. Acta, **2008**, *53*, 7852-7858.

50) M. Feroci, I. Chiarotto, L. Rossi, A. Inesi
“Activation of elemental sulfur by electrogenerated cyanomethyl anion: synthesis of substituted 2-aminothiophenes by Gewald reaction”
Advanced Synthesis & Catalysis, **2008**, *350*, 2740-2746.

51) I. Chiarotto, M. M. M. Feeney, M. Feroci and A. Inesi
“Electrogenerated N-heterocyclic carbene. N-Acylation of chiral oxazolidin-2-ones in ionic liquids”
Electrochim. Acta, **2009**, *54*, 1638-1644.

52) I. Chiarotto, M. Feroci, M. Orsini, G. Sotgiu and A. Inesi
“Electrogenerated N-heterocyclic carbene. N-Functionalization of benzoxazolones”
Tetrahedron, **2009**, *65*, 3704-3710.

53) M. Feroci, M. N. Elinson, L. Rossi, A. Inesi
“The double role of ionic liquids in organic electrosynthesis: precursors of N-heterocyclic carbenes and green solvents. Henry reaction.”
Electrochem. Commun. **2009**, *11*, 1523-1526.

- 54) G. Bianchi, M. Feroci, L. Rossi
"Reaction of the electrogenerated cyanomethyl anion with carbonyl compounds: a clean and safe synthesis of β -hydroxynitriles"
Eur. J. Org. Chem. **2009**, 3863-3866.
- 55) M. Feroci, M. Orsini, A. Inesi
"An efficient combined electrochemical and ultrasound assisted synthesis of imidazole-2-thiones".
Advanced Synthesis & Catalysis, **2009**, 351, 2067-2070.
- 56) M. Feroci, I. Chiarotto, M. Orsini, A. Inesi
"Electrogenerated NHC as an organocatalyst in the Staudinger reaction"
Chemical Communications **2010**, 46, 4121-4123.
- 57) I. Chiarotto, M. Feroci, M. Orsini, M. M. M. Feeney, A. Inesi
"Study on the Reactivity of Aldehydes in Electrolyzed Ionic Liquids. Benzoin Condensation: VOCs (Volatile Organic Compounds) vs RTILs (Room Temperature Ionic Liquids)."
Advanced Synthesis and Catalysis, **2010**, 352, 3287-3292.
- 58) M. Feroci, I. Chiarotto, M. Orsini, G. Sotgiu, A. Inesi
"Carbon dioxide as carbon source: activation via electrogenerated O_2^- in ionic liquids"
Electrochim. Acta, **2011**, 56, 5823-5827.
- 59) M. Orsini, I. Chiarotto, M. M. M. Feeney, M. Feroci, G. Sotgiu, A. Inesi
"Umpolung of α,β -unsaturated aldehydes by electrogenerated NHCs in ionic liquids: synthesis of γ -butyrolactones"
Electrochem. Commun., **2011**, 13, 738-741.
- 60) M. Feroci
"Investigation of the Role of Electrogenerated N-Heterocyclic Carbene in the Staudinger Synthesis in Ionic Liquid"
Int. J. Org. Chem., **2011**, 1, 191-201.
- 61) M. Feroci, M. Orsini, L. Rossi, A. Inesi
"The double role of ionic liquids in electroorganic synthesis: Green solvents and precursors of N-heterocyclic carbenes"
Current Organic Synthesis (Special issue: Organic synthesis using green reaction media), **2012**, 9(1), 40-52.
- 62) Marta Feroci, Daniela De Vita, Luigi Scipione, Giovanni Sotgiu and Silvano Tortorella
"Electrogenerated acetonitrile anion induced selective N-alkylation of bifunctional compounds."
Tetrahedron Lett., **2012**, 53, 2564-2567.
- 63) Marta Feroci, Isabella Chiarotto, Monica Orsini, Romina Pelagalli, Achille Inesi
"Umpolung reactions in ionic liquid catalyzed by electrogenerated N-heterocyclic carbenes. Synthesis of saturated esters from activated α,β -unsaturated aldehydes"
Chem. Commun., **2012**, 48(43), 5361-5363.
- 64) Romina Pelagalli, Isabella Chiarotto, Marta Feroci and Stefano Vecchio
"Isopropenyl acetate, a remarkable, cheap and acylating agent of amines under solvent- and catalyst-free conditions: a systematic investigation."
Green Chem., **2012**, 14, 2251-2255.
- 65) Isabella Chiarotto, Marta Feroci, Giovanni Sotgiu, and Achille Inesi
"Electrogenerated N-heterocyclic carbene in the parent room temperature ionic liquid as efficient medium for the transesterification/acylation reaction"
Eur. J. Org. Chem., **2013**, 326-331.
- 66) Marta Feroci, Isabella Chiarotto, and Achille Inesi
"Internal redox amidation of α,β -unsaturated aldehydes in ionic liquids. The electrochemical route"
Electrochim. Acta, **2013**, 89, 692-699.

- 67) Marta Feroci, Isabella Chiarotto, and Achille Inesi
 "Electrolysis of Ionic Liquids. A Possible Keystone for the Achievement of Green Solvent-Catalyst Systems."
Curr. Org. Chem., **2013**, *17*, 204-219.
- 68) Laura Friggeri, Flavio Ballante, Rino Ragno, Ira Musmuca, Daniela De Vita, Fabrizio Manetti, Mariangela Biava, Luigi Scipione, Roberto Di Santo, Roberta Costi, Marta Feroci, and Silvano Tortorella.
 "Pharmacophore Assessment Through 3-D QSAR: evaluation of the predictive ability on new derivatives by the application on a serie of antitubercular agents."
J. Chem. Inf. Model., **2013**, *53*, 1463–1474.
- 69) Isabella Chiarotto, Marta Feroci, Giovanni Sotgiu, Achille Inesi
 "The dual role of ionic liquid BmimBF₄, precursor of N-heterocyclic carbene and solvent, in the oxidative esterification of aldehydes."
Tetrahedron, **2013**, *69*, 8088-8095.
- 70) Marta Feroci, Isabella Chiarotto, Stefano Vecchio Cipriotti, Achille Inesi
 "On the reactivity and stability of electrogenerated N-heterocyclic carbene in parent 1-butyl-3-methyl-1H-imidazolium tetrafluoroborate: Formation and use of N-heterocyclic carbene-CO₂ adduct as latent catalyst"
Electrochimica Acta, **2013**, *109*, 95–101
- 71) Marta Feroci, Isabella Chiarotto, Gianpiero Forte, Achille Inesi
 "An electrochemical methodology for the cyclic CO₂ "catch and release". The role of the electrogenerated N-heterocyclic carbene in BMIm-BF₄"
Journal of CO₂ Utilization, **2013**, *2*, 29-34.
- 72) Marta Feroci, Isabella Chiarotto, Gianpiero Forte, Simonetti Giovanna, Felicia Diodata D'Auria, Louis Maes, Luigi Scipione, Laura Friggeri, Roberto Di Santo, Daniela De Vita, Silvano Tortorella
 "Efficient electrochemical N-alkylation of N-Boc-protected 4-aminopyridines: towards new biologically active compounds"
ISRN Org. Chem., **2014**, 10 pages, doi: 10.1155/2014/621592
- 73) Gianpiero Forte, Isabella Chiarotto, Achille Inesi, Maria Antonietta Loreto, Marta Feroci,
 "Electrogenerated N-Heterocyclic Carbene in Ionic Liquid: an Insight into the Mechanism of the Oxidative Esterification of Aromatic Aldehydes"
Advanced Synthesis and Catalysis, **2014**, *356*, 1773-1781. DOI: 10.1002/adsc.201400163
- 74) Marta Feroci, Isabella Chiarotto, Gianpiero Forte, Stefano Vecchio Cipriotti, Achille Inesi
 "Stability and CO₂ Capture Ability of Electrogenerated N-Heterocyclic carbene in the Parent 1-Butyl-3-methylimidazolium ionic liquid (BMIm-X): the role of the anion X⁻."
ChemElectroChem., **2014**, *1*, 1407-1414. DOI: 10.1002/celc.201300269
- 75) Isabella Chiarotto, Marta Feroci, Gianpiero Forte, Monica Orsini, Achille Inesi
 "Proton Exchange Equilibrium between bases and BMImBF₄. An Electrochemical Procedure to Evaluate the Presence of Carbene for Synthetic Applications"
ChemElectroChem., **2014**, *1*, 1525-1530. DOI: 10.1002/celc.201402134
- 76) Marta Feroci, Isabella Chiarotto, Francesca D'Anna, Gianpiero Forte, Renato Noto, Achille Inesi
 "Stability and Organocatalytic Efficiency of N-Heterocyclic Carbenes Electrogenerated in Organic Solvents from Imidazolium Ionic Liquids."
Electrochimica Acta, **2015**, *153*, 122-129. doi: 10.1016/j.electacta.2014.11.135
- 77) Isabella Chiarotto, Marta Feroci, Gianpiero Forte, Achille Inesi
 "Stability of electrogenerated 1-butyl-3-methylimidazol-2-ylidene in DMF. Part 2. Role of acid substrates."
Electrochimica Acta, **2015**, *176*, 627-635.

- 78) Gianpiero Forte, Isabella Chiarotto, Ilaria Giannicchi, Maria Antonietta Loreto, Andrea Martinelli, Roberta Micci, Federico Pepi, Serena Rossi, Chiara Salvitti, Annarita Stringaro, Luca Tortora, Stefano Vecchio Cipriotti and Marta Feroci
"Characterization of Naproxen-Polymer Conjugates for Drug-Delivery"
Journal of Biomaterials Science: Polymer Edition, **2016**, 27(1), 69-85.
- 79) Marta Feroci, Isabella Chiarotto, Francesca D'Anna, Luigi Ornano, Carla Rizzo, Achille Inesi
"Azolium and acetate ions in DMF: formation of free N-heterocyclic carbene. A voltammetric analysis."
Electrochem. Commun., **2016**, 67, 55-58. DOI: 10.1016/j.elecom.2016.03.012
- 80) Marta Feroci, Isabella Chiarotto, Francesca D'Anna, Fabrizio Gala, Renato Noto, Luigi Ornano, Giuseppe Zollo, and Achille Inesi
"N-Heterocyclic carbenes and parent cations: acidity, nucleophilicity, stability and hydrogen bonding. Electrochemical study and ab initio calculations."
ChemElectroChem, **2016**, 3, 1-10.
- 81) Marta Feroci, Isabella Chiarotto, Achille Inesi
"Advances in the knowledge of N-heterocyclic carbenes properties. The backing of the electrochemical investigation."
Catalysts, **2016**, 6, 178. 23 pagine doi:10.3390/catal6110178
- 82) Daniela De Vita, Fabiana Pandolfi, Luigi Ornano, Marta Feroci, Isabella Chiarotto, Ilaria Sileno, Federico Pepi, Roberta Costi, Roberto Di Santo, Luigi Scipione
"New N,N-dimethylcarbamate inhibitors of acetylcholinesterase: design synthesis and biological evaluation"
J. Enzyme Inhib. Med. Chem., **2016**, 31, 106-113. DOI: 10.1080/14756366.2016.1220377
- 83) Maria Papa, Isabella Chiarotto, Marta Feroci
"Willgerodt-Kindler Reaction of Benzaldehydes: A Comparative Study for a Sustainable Synthesis of Secondary Thiobenzamides"
ChemistrySelect, **2017**, 2, 3207-3210.
- 84) Salvatore Marullo, Marta Feroci, Renato Noto, Francesca D'Anna
"Insights into the anion effect on the self assembly of perylene bisimide diimidazolium salts"
Dyes Pigments, **2017**, 146, 54-65.
- 85) Isabella Chiarotto, Marta Feroci, Achille Inesi
"First direct evidence of N-heterocyclic carbene in BMIm acetate ionic liquid. An electrochemical and chemical study on the role of temperature"
New J. Chem., **2017**, 41, 7840-7843.
- 86) Gianpiero Forte, Isabella Chiarotto, Frank Richter, Vinh Trieu, Marta Feroci
"Towards a sustainable electrochemical activation for recycling CO₂: synthesis of bis-O-alkylcarbamates from aliphatic and benzyl diamines."
React. Chem. Eng. **2017**, 2, 646-649. DOI: 10.1039/C7RE00101K
- 87) Fabiana Pandolfi, Isabella Chiarotto, Daniele Rocco, and Marta Feroci
"Electrogenerated superoxide anion induced oxidative amidation of benzoin".
Electrochim. Acta **2017**, 254, 358-367. DOI: 10.1016/j.electacta.2017.09.135.
- 88) Floriana Billeci, Francesca D'Anna, Isabella Chiarotto, Marta Feroci, Salvatore Marullo
"The anion impact on the self-assembly of naphthalene diimide diimidazolium salts"
New J. Chem., **2017**, 41, 13889-13901. DOI: 10.1039/C7NJ03705H
- 89) Marta Feroci, Isabella Chiarotto, Monica Orsini, Fabiana Pandolfi, Daniela Zane, Achille Inesi
"Electrogenerated N-Heterocyclic Olefin (NHO): Stability and Catalytic Ability."
ChemElectroChem, **2018**, 5, 651-658. DOI: 10.1002/celc.201700992

- 90) Luigi Ornano, Marta Feroci, Laura Guarcini, Alessandro Venditti, Armandodoriano Bianco
"Anti HIV agents from nature: natural compounds from *Hypericum hircinum* and carbocyclic nucleosides from iridoids"
Studies in Natural Products Chemistry (Bioactive Natural Products), **2018**, *56*, 173-228. Doi: 10.1016/B978-0-444-64058-1.00006-6
- 91) Martina Miceli, Elia Roma, Paolo Rosa, Marta Feroci, M. Antonietta Loreto, Daniela Tofani, Tecla Gasperi
"Synthesis of benzofuran-2-one derivatives and evaluation of their antioxidant capacity by comparing DPPH assay and Cyclic Voltammetry"
Molecules, **2018**, *23*, 710. doi:10.3390/molecules23040710
- 92) Fabiana Pandolfi, Isabella Chiarotto, Marta Feroci
"Electrochemically modified Corey-Fuchs reaction for the synthesis of arylalkynes. The case of 2-(2,2-dibromovinyl)naphthalene."
Beilstein J. Org. Chem., **2018**, *14*, 891–899. doi:10.3762/bjoc.14.76
- 93) Fabiana Pandolfi, Marta Feroci, Isabella Chiarotto
"Role of anion and cation in the 1-methyl-3-butyrimidazolium ionic liquids BMImX: the Knoevenagel condensation."
ChemistrySelect, **2018**, *3*, 4745-4749. doi:10.1002/slct.201800295
- 94) Fabiana Pandolfi, Leonardo Mattiello, Daniela Zane, Marta Feroci
"Electrochemical behaviour of 9-methylcaffeinium iodide and in situ electrochemical synthesis of hymeniacidin"
Electrochim. Acta, **2018**, *280*, 71-76. doi: 10.1016/j.electacta.2018.05.073
- 95) Chiarotto I, Mattiello L, Pandolfi F, Rocco D and Feroci M (2018)
"NHC in Imidazolium Acetate Ionic Liquids: Actual or Potential Presence?"
Front. Chem. **2018**, *6*:355. doi: 10.3389/fchem.2018.00355
- 96) Gianpiero Forte, Isabella Chiarotto, Frank Richter, Vinh Trieu, and Marta Feroci
"Sustainable Carboxylation of Diamines with Hydrogen Carbonate"
Org. Process Res. Dev. **2018**, *22*, 1323-1327. doi: 10.1021/acs.oprd.8b00229
- 97) Daniele Rocco, Isabella Chiarotto, Francesca D'Anna, Leonardo Mattiello, Fabiana Pandolfi, Carla Rizzo, and Marta Feroci
"Cathodic behaviour of dicationic imidazolium bromides: the role of the spacer"
ChemElectroChem **2019**, *6*, 4275-4283. doi: 10.1002/celec.201900099
- 98) Fabiana Pandolfi, Isabella Chiarotto, Leonardo Mattiello, Daniele Rocco, Marta Feroci
"Cathodic reduction of caffeine: amino-functionalized imidazole from a bio-based reagent"
Synlett **2019**, *30(10)*, 1215-1218. DOI: 10.1055/s-0037-1611483
- 99) Marta Feroci, Fabiana Pandolfi, Rita Petrucci, Daniele Rocco, Daniela Zane, Leonardo Mattiello
"Electrochemical studies of new donor-acceptor oligothiophenes"
ChemElectroChem **2019**, *6*, 4016-4021.
doi: 10.1002/celec.201900920
- 100) Isabella Chiarotto, Leonardo Mattiello, Fabiana Pandolfi, Daniele Rocco, Marta Feroci, Rita Petrucci
"Electrochemical oxidation of theophylline in organic solvents: HPLC-PDA-ESI-MS/MS analysis of the oxidation products"
ChemElectroChem **2019**, *6*, 4511-4521.
DOI: 10.1002/celec.201901071

- 101) Isabella Chiarotto, Leonardo Mattiello, Marta Feroci
"The electrogenerated cyanomethyl anion: an old base still smart"
Acc. Chem. Res. **2019**, *52*, 3297-3308.
DOI: 10.1021/acs.accounts.9b00465
- 102) Fabiana Pandolfi, Isabella Chiarotto, Leonardo Mattiello, Rita Petrucci, Marta Feroci
"Two Different Selective Ways in the Deprotonation of β -Bromopropionanilides: β -Lactams or Acrylanilides Formation"
ChemistrySelect, **2019**, *4*, 12871-12874. DOI: 10.1002/slct.201902841
- 103) Petrucci Rita, Chiarotto Isabella, Mattiello Leonardo, Passeri Daniele, Rossi Marco, Giuseppe Zollo, Feroci Marta
"Graphene oxide: a smart (starting) material for natural methylxanthines adsorption and detection."
Molecules **2019**, *24*, 4247; doi:10.3390/molecules24234247.
- 104) F. Billeci, F. D'Anna, M. Feroci, P. Cancemi, S. Feo, A. Forlino, F. Tonnelli, K. Seddon, H. Q. N. Gunaratne, N. Plechkova
"When functionalisation comes in useful: ionic liquids with a "sweet" appended moiety demonstrate drastically reduced toxicological effects"
ACS Sustainable Chemistry & Engineering **2020**, *8*(2), 926-938. DOI: 10.1021/acssuschemeng.9b05507
- 105) Marta Feroci, Martina Bortolami, Isabella Chiarotto, Paola Di Matteo, Leonardo Mattiello, Fabiana Pandolfi, Daniele Rocco, Rita Petrucci
"An insight on the reactivity of the electrogenerated radical cation of caffeine"
Electrochem **2020**, *1*, 44-55. doi:10.3390/electrochem1010005
- 106) Francesca D'Anna, Maria Luisa Grilli, Rita Petrucci, Marta Feroci
"WO₃ and ionic liquids : a synergic pair for pollutant gas sensing and desulfurization"
Metals **2020**, *10*, 475; doi:10.3390/met10040475
- 107) Martina Bortolami, Fabiana Pandolfi, Daniela De Vita, Camilla Carafa, Antonella Messori, Roberto Di Santo, Marta Feroci, Roberta Costi, Isabella Chiarotto, Donatella Bagetta, Stefano Alcaro, Marisa Colone, Annarita Stringaro, Luigi Scipione
"New deferiprone derivatives as multi-functional cholinesterase inhibitors: design, synthesis and in vitro evaluation"
Eur. J. Med. Chem. **2020**, *198*, 112350. doi:10.1016/j.ejmech.2020.112350
- 108) Vincenzo Scarano, Martina Bortolami, Fabiana Pandolfi, Rita Petrucci, Daniele Rocco, Giuseppe Zollo, and Marta Feroci
"Reaction of Electrogenerated Cyanomethyl Anion with Cyclohexylisocyanate: Synthesis of N-(cyclohexylcarbamoyl) acetamide. An Unexpected Product"
J. Electrochem. Soc., **2020**, *167*, 155514. <https://doi.org/10.1149/1945-7111/abb8f4>
- 109) Carla Rizzo, Salvatore Marullo, Marta Feroci, Vincenza Accurso, Francesca D'Anna
"Insights into the Effect of the Spacer on the Properties of Imidazolium based AIE Luminogens"
Dyes & Pigments **2021**, *186*, 109035. <https://doi.org/10.1016/j.dyepig.2020.109035>
- 110) Rita Petrucci, Marta Feroci, Leonardo Mattiello, Isabella Chiarotto
"Xanthine scaffold: available synthesis routes to deliver diversity by derivatization"
Mini-Rev. Org. Chem. **2021**, *18*(1), 27-42. <https://doi.org/10.2174/1570193X17999200507103141>
- 111) Martina Bortolami, Isabella Chiarotto, Leonardo Mattiello, Rita Petrucci, Daniele Rocco, Fabrizio Vetica, and Marta Feroci
"Organic Electrochemistry: Synthesis and Functionalization of β -Lactams in the twenty-first Century."

112) Martina Bortolami, Fabiana Pandolfi, Antonella Messori, Daniele Rocco, Marta Feroci, Roberto Di Santo, Daniela De Vita, Roberta Costi, Paola Cascarino, Giovanna Simonetti, Luigi Scipione
"Design, synthesis and biological evaluation of a series of iron and copper chelating deferiprone derivatives as new agents active against *Candida albicans*"
Bioorg. Med. Chem. Lett. **2021**, 42, 128087. <https://doi.org/10.1016/j.bmcl.2021.128087>

113) Fabrizio Vetica, Martina Bortolami, Rita Petrucci, Daniele Rocco, Marta Feroci
"Electrogenerated NHCs in organic synthesis: ionic liquids vs organic solvents effects"
The Chemical Record, **2021**, DOI: 10.1002/tcr.202000178

114) Rita Petrucci, Paola Di Matteo, Martina Bortolami, Marta Feroci, Vincenzo Scarano
"Electrochemical transformations of methylxanthines in non-aqueous medium"
ChemElectroChem, **2021**, DOI: 10.1002/celec.202100320

115) Martina Bortolami, Francesca Leonelli, Marta Feroci, Fabrizio Vetica
"Step economy in the Stereoselective Synthesis of Functionalized Oxindoles via Organocatalytic Domino/One-pot Reactions"
Curr. Org. Chem. **2021**, <https://doi.org/10.2174/1385272825666210518124845>

CAPITOLI DI LIBRI

1) M. Feroci, A. Inesi, L. Rossi
"Electrochemical activation of carbon dioxide. Synthesis of organic carbonates and carbamates."
in *Novel Trends in Electroorganic Synthesis*, S. Torii Ed., Springer-Verlag Tokyo, **1998**, 193-196.

2) M. Feroci, M. Orsini, A. Inesi
"RTILs versus VOCs in organic electrosynthesis. The requirement of a careful comparison." Chapter 34 in "Green solvents properties and applications in chemistry", A. Mohammad, Inamuddin eds, Springer Science, **2012**, chapter 16, pages 435-471.

EXTENDED PROCEEDINGS

1) L. Mattiello, M. Feroci, L. Rampazzo, A. Inesi
"Electrochemistry of halogenated adamantane derivatives in the absence and in the presence of CO₂"
New directions in organic electrochemistry. Electrochem. Soc. Proc. 2000-15), **2000**, 68-71.

2) I. Chiarotto, M. Feroci
"Electrochemical Carbonylation of Primary Amines to Symmetrical N,N'-Disubstituted Ureas Using Palladium (II) Catalyst in Combination with its Anodic Recycling"
Organic electrochemistry. Electrochem. Soc. Proc. 2002-10 , **2002**, 33-35.

3) Feroci, M.; Orsini, M.; Palombi, L.; Inesi, A.
"Electrochemically induced diastereoselective functionalization of N-acyloxazolidin-2-ones"
Mechanistic and synthetic aspects of organic and biological electrochemistry. Electrochem. Soc. Proc. 2003-12, **2003**, 29-32.

4) L. Rossi, M. Feroci, M. Orsini, L. Palombi, A. Inesi
"Electrolyzed CH₃CN-Et₄NClO₄ solutions: an alternative strategy to the synthesis of β-lactams via C-N bond formation"
Analytical Mechanistic and Synthetic Organic Electrochemistry- 6th International M. Baizer Award Symposium in Honor of Dennis H. Evans and Masao Tokuda. Electrochem. Soc. Proc. 2004-10, **2004**, 109-112.

5) M. Feroci, I. Chiarotto, M. Orsini, G. Sotgiu, A. Inesi
"Reactivity of electrogenerated imidazole-2-ylidenes in ionic liquids: synthetic implications"

Synthetic and mechanistic organic electron transfer reactions. ECS Transactions. 2010, 25 (18), 1-11.

6) I. Chiarotto, M. Feroci, M. Orsini, G. Sotgiu, L. Rossi
"Benzoin condensation in ionic liquids via electrochemical generation of carbene"
Synthetic and mechanistic organic electron transfer reactions. ECS Transactions. 2010, 25 (18), 13-18.

7) Daniele Rocco, Isabella Chiarotto, Leonardo Mattiello, Fabiana Pandolfi, Daniela Zane and Marta Feroci
"Electrochemical synthesis and amidation of benzoin: benzamides from benzaldehydes"
Pure Appl. Chem. 2019, 91, 1709-1715. doi: 10.1515/pac-2018-1118

8) Rita Petrucci, Isabella Chiarotto, Leonardo Mattiello, Fabiana Pandolfi, Daniele Rocco, Giuseppe Zollo, Marta Feroci
"High performance liquid chromatography coupled with mass spectrometry for/and nanomaterials: An overview"
AIP Conference Proceedings 2257, 020002 (2020); https://doi.org/10.1063/5.0023801

9) Marta Feroci, Tommaso Civitarese, Fabiana Pandolfi, Rita Petrucci, Daniele Rocco, Giuseppe Zollo, and Leonardo Mattiello
A series of new conjugated oligothiophenes for organic electronics
AIP Conference Proceedings 2257, 020008 (2020); https://doi.org/10.1063/5.0023648

BREVETTI

1) Inventori: I. Chiarotto, M. Feroci, G. Forte, H. Heckroth, A. Inesi, F. Richter, V. Trieu
"Sintesi elettrochimica di dicarbammati."
Richiedente: BayerMaterialScience AG (De)
Numero domanda: 102014902313272 (RM2014A000694)
Data Deposito: 28 novembre **2014**.

Estensione internazionale
Inventori: F. Richter, H. Heckroth, V. Trieu, M. Feroci, G. Forte, A. Inesi, I. Chiarotto
"Electrochemical synthesis of dicarbammates"
Richiedente: Covestro AG (De)
Numero domanda: EP2015/077695
Publication number: WO2016083475
Data Deposito: 25 novembre 2015
Publication date: 02 giugno **2016**.

2) Inventori: I. Chiarotto, M. Feroci, G. Forte, A. Inesi, F. Richter, V. Trieu
"Sustainable Synthesis of carbamate compounds"
Richiedente: Covestro AG (De)
Numero domanda: 102016000013938
Data Deposito: 11 febbraio **2016**.

Estensione internazionale
Inventori: I. Chiarotto, M. Feroci, G. Forte, A. Inesi, F. Richter, V. Trieu
"Sustainable Synthesis of carbamate compounds"
Richiedente: Covestro AG (De)
Numero domanda: PCT/EP2017/052510
Data Deposito: 6 febbraio **2017**
Numero brevetto: WO2017/137343 A1
Data di pubblicazione 17.08.2017