

Allegato B- FEROCI Marta

Procedura valutativa per la copertura di n. 1 posto di Professore Universitario di prima fascia per il Settore concorsuale 03/B2 – Settore scientifico disciplinare CHIM/07 presso il Dipartimento di Scienze di Base e Applicate per l'Ingegneria – Facoltà di Ingegneria Civile e Industriale – codice concorso 2021POR022.

Decreto Rettore Università di Roma "La Sapienza" n 2431/2021 del 17.09.2021

MARTA FEROCI Curriculum Vitae

Roma, 28-09-2021

Part I – General Information

Full Name	Feroci Marta
ORCID ID	0000-0002-3673-6509
Scopus Author ID	7006286734
Researcher ID	E-3996-2012

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation		Sapienza	Degree in Chemistry
PhD		Sapienza	Ph.D. in Chemistry
Licensure		Sapienza	Chemist

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
1992	2010	Sapienza, Facoltà di Ingegneria	Ricercatore a tempo indeterminato, CHIM/07
2010	present	Sapienza, Facoltà Ingegneria Civile e Industriale	Professore Associato, CHIM/07
1995	2013	Centro C.N.R. di Studio per la Elettrochimica e la Chimica Fisica delle Interfasi (successivamente Istituto per lo Studio dei Materiali Nanostrutturati ISMN)	Personale universitario afferente
1998	2003	Sapienza, Facoltà Ingegneria Civile e Industriale (Dip. DICMA)	Giunta di Dipartimento
2011	2011	Sapienza, Facoltà Ingegneria Civile e Industriale (Dip. SBAI)	Commissione Scientifica di Dipartimento
2012	2012	Sapienza, Facoltà Ingegneria Civile e Industriale	Commissione Didattica di Facoltà
2013	2014	Sapienza, Facoltà Ingegneria Civile e Industriale	Commissione Paritetica di Facoltà
2013	2016	Sapienza, Facoltà Ingegneria Civile e Industriale	Giunta di Dipartimento



		Industriale (Dip. SBAI)	
2014	2016	Sapienza, Facoltà Ingegneria Civile e Industriale	Giunta di Facoltà
2014	2016	Sapienza, Facoltà Ingegneria Civile e Industriale	Comitato di Giunta di Facoltà
2018	present	Sapienza	Delegata del Preside all'Orientamento e Tutorato
2018	2020	Sapienza	Commissione Tutorato di Ateneo (CTA)
2021	present	Sapienza	Commissione Orientamento e Tutorato di Ateneo (CORET)
2012 e 2016		Abilitazione Scientifica Nazionale a professore universitario di prima fascia, SC 03/B2, SSD CHIM/07	
2019	present	Dottorato di Ricerca „Engineering and Applied Science for Energy and Industry”, Sapienza	Membro del Collegio dei Docenti
2016	2019	Dottorato di Ricerca „Scienze e Tecnologie per i Sistemi Complessi”, Sapienza	Membro del Collegio dei Docenti

IIIB – Other Appointments

Start	End	Institution	Position
2012	2018	Associazione Italiana Chimica per Ingegneria (AICIng)	Consiglio Direttivo (tesoriere)
2020	present	Divisione di Chimica per le Tecnologie della Società Chimica Italiana	Consiglio Direttivo (tesoriere)
2018	present	MUR	Revisore REPRISE, Settori ERC: Organic chemistry (PE5_17), Ionic liquids (PE5_5)
2020	2020	University of Leuven, Belgium	Revisore esperto di progetti di ricerca
2013	2020	Research Agreement with Bayer MaterialScience, then Covestro (Leverkusen)	Responsabile scientifico
2011	present	International Journal of Organic Chemistry	Editorial Board
2020	present	Sustainability, Sustainable Chemistry Section	Editorial Board
2015	2015	Journées d'Electrochimie, Rome 2015	Comitato Organizzatore
2015	2015	VI Workshop Nazionale AICIng "Molecules and Materials: Chemistry for Engineering", Roma	Comitato Organizzatore e Comitato Scientifico
2021	2021	Nanoinnovation 2021, Roma	Programme Committee
2004	present	Riviste internazionali di Chimica Organica e Elettrochimica	Referee per più di 40 riviste, tra cui: - Journal of American Chemical Society - Nature Communications - Journal of Organic Chemistry - Green Chemistry - Chemical Communications - Advanced Synthesis and Catalysis

Part IV – Teaching experience

Year	Institution	Lecture/Course
1996 present	to Sapienza, Facoltà Ingegneria Civile e Industriale e Facoltà Ingegneria dell'Informazione, Informatica e Statistica	Chimica (9+6 CFU per anno, circa 300-350 studenti/anno)
1996 present	to Sapienza, Facoltà Ingegneria Civile e Industriale, Facoltà di Scienze e Facoltà di Farmacia e Medicina	Tutor di 45 tesi sperimentali di laurea magistrale, 5 tesi di laurea triennale, 3 tesi di dottorato
1996 present	to Sapienza, Facoltà Ingegneria Civile e Industriale	Supervisore di 5 assegnisti di Ricerca
2018	Université Libre de Bruxelles	membro della Giuria per la difesa pubblica di Tesi di Dottorato
2017- 2019	Sapienza, Facoltà Ingegneria Civile e Industriale	Commissario di concorso per RTD A, Politecnico di Milano, Commissario di 2 concorsi per PA, Università di Roma “La Sapienza”.

Part V - Society memberships, Awards and Honors

Year	Title
1990 present	to membro effettivo, dal 2020 afferente, della Società Chimica Italiana, Divisione di Elettrochimica
2020 present	to membro effettivo della Società Chimica Italiana, Divisione di Chimica per le Tecnologie
2006 present	to membro effettivo della Associazione Italiana Chimica per Ingegneria (AICIng)
1995 present	to membro discontinuo della Electrochemical Society (ECS) e della International Society of Electrochemistry (ISE)
2018- 2021	Lavori su invito in numeri speciali di riviste internazionali, come esperto riconosciuto nel campo dell'Elettrochimica Organica: <ul style="list-style-type: none"> • <i>Front. Chem.</i> 2018, 6, 355. (I.F. 3,782) • <i>Beilstein J. Org. Chem.</i>, 2018, 14, 891. (I.F. 2,595) • <i>ChemElectroChem</i> 2019, 6, 4275. (I.F. 4,154) • <i>Synlett</i> 2019, 30, 1215. (I.F. 2,006) • <i>Acc. Chem. Res.</i> 2019, 52, 3297. (I.F. 20,834) • <i>J. Org. Chem.</i> 2021, doi.org/10.1021/acs.joc.1c00932 (I.F. 4,335 (2019)) • <i>Chem. Rec.</i>, 2021, 21, 2130-2147. (I.F. 6,163 (2019))
2017- 2021	Invited speaker: <ul style="list-style-type: none"> • Solvay Workshop 2017 "<i>Ionic Liquids: from fundamentals to applications</i>", Brussels, 20-23 Febbraio 2017. • Beilstein Symposium 2019 "<i>Electrifying organic synthesis</i>", Mainz (Germany) 9-11 Aprile 2019. • 71st Annual Meeting of the International Society of Electrochemistry "<i>Electrochemistry towards Excellence</i>", 30 August-4 September 2020, Belgrade, Serbia. • SCI 2021, XXVII Congresso Nazionale della Società Chimica Italiana „<i>La chimica</i>

	<i>guida lo sviluppo sostenibile</i> ”, 14-23 settembre 2021 (Keynote, Divisione di Elettrochimica)
1992-present	Relatore (comunicazioni orali) a 18 Congressi nazionali e internazionali

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
1998	Elettrochimica molecolare	PRIN as I	
2000	Elettrochimica molecolare ed elettrosintesi	PRIN as I	
2002	La metodologia elettrochimica in chimica organica: un'opportunità per sintesi pulite ed efficienti.	PRIN as I	
2004	La metodologia elettrochimica in chimica organica: un'opportunità per sintesi pulite ed efficienti.	PRIN as I	
2006	La metodologia elettrochimica in chimica organica: un'opportunità per sintesi pulite ed efficienti.	PRIN as I	
2013-2014	Contratto di ricerca con Bayer MaterialScience: Non- phosgene electrosynthesis of isocyanate precursors using CO ₂ .	PI	
2014-2015	Contratto di ricerca con Bayer MaterialScience: Electrosynthesis of carbonates and chemical synthesis of isocyanate precursors and carbonates.	PI	
2015-2016	Contratto di ricerca con Bayer MaterialScience: Chemical synthesis of isocyanate precursors; stability of N- and P-centered cations with varying structures and anions in aprotic media .	PI	
2016-2017	Contratto di ricerca con Covestro Deutschland AG (formerly Bayer MaterialScience AG): Stability studies on quaternary ammonium salts in the presence of model isocyanates	PI	
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2018-2019	Contratto di ricerca con Covestro Deutschland AG (formerly Bayer MaterialScience AG): Stability studies on quaternary ammonium salts in the presence of model isocyanates	PI	
2019-2020	Contratto di ricerca con Covestro Deutschland AG (formerly Bayer MaterialScience AG): Stability studies on quaternary ammonium salts in the presence of model isocyanates	PI	
1993-2000	Ricerca di Ateneo e Facoltà	I	
2001 to	Ricerca di Ateneo e Facoltà	PI	

present			
2014	Finanziamento di Ateneo per Grandi Attrezzature	PI	

Part VII – Research Activities

Keywords	Brief Description
Organic Electrochemistry	Electrochemistry can be an efficient and "green" methodology to carry out organic syntheses, as its reagent, the electron, is non pollutant, easy to dose and without byproduct. Moreover, it allows to generate in situ and on demand highly reactive species, completely avoiding any issues of handling and storing for these chemicals.
N-heterocyclic carbene	The cathodic reduction of imidazolium salts (ionic liquids) yields the corresponding N-heterocyclic carbenes (NHCs), which can be used as bases, nucleophiles and/or organocatalysts. In particular, when acting as organocatalysts, NHCs induce the umpolung process in the carbonyl carbon atom, yielding a nucleophilic species.
Carbon dioxide	Carbon dioxide, an abundant, inexpensive and quite unreactive source of carbon, can be activated by electrochemical means and used in organic synthesis as C1 building block. In this way, the carboxylation of activated compounds can be carried out in high yields.
Cyclic voltammetry	Cyclic voltammetry is a powerful tool to study electroactive species. In particular, it can be used to study the stability of unstable molecules, as N-heterocyclic carbenes, and to follow the reaction outcome.
Ionic Liquids	Ionic liquids can, in some cases, be considered "green" solvents, due to their virtually null vapor pressure (not air-pollutant); moreover, they can substitute the solvent-supporting electrolyte system in electroorganic chemistry. The outcome of an organic reaction can be very different when carried out in an ionic liquid, in comparison to molecular solvents.

ELENCO COMPLETO PUBBLICAZIONI

	<u>Autori (corresponding)</u>	<u>Titolo</u>	<u>Rivista</u>	<u>IF</u>	<u>Cit. Scopus</u>
1	A. Curulli, M. Feroci, <u>A. Inesi</u>	Reactivity of electrogenerated superoxide ion. Part 3. Oxidative cleavage and reduction of some cyclohexanones	<i>J. Chem. Res. (S)</i> , 1993 , 488-489; (<i>M</i>), 1993 , 3320-3338	0,550 (2010)	1 (WOS)
2	F. De Angelis, M. Feroci, <u>A. Inesi</u>	Reactivity of 2-chloro- and 2-(tosyloxy)cyclohexanones towards anions electrogenerated at carbonium and nitrogen atoms. Electrochemically induced Favorskii rearrangement	<i>Bull. Soc. Chim. Fr.</i> , 1993 , 130, 712-719	1,289 (1997)	7 (WOS)
3	F. De Angelis, A. Inesi, M. Feroci, R. Nicoletti	Reaction of electrogenerated dichlorocarbene with methylindoles	<i>J. Org. Chem.</i> , 1995 , 60, 445-447	3,476 (1997)	14
4	M. A. Casadei, S. Cesa, F. Micheletti Moracci, <u>A. Inesi</u> , M. Feroci	Activation of carbon dioxide by electrogenerated superoxide ion. A new carboxylating reagent	<i>J. Org. Chem.</i> , 1996 , 61, 380-383	3,476 (1997)	41
5	I. Chiarotto, M. Feroci, C. Giomini, <u>A. Inesi</u>	Reactivity of α,α' -dichloroketones towards anions electrogenerated at carbonium and oxygen atoms. Electrochemically induced Favorskii rearrangement. Part 2	<i>Bull. Soc. Chim. Fr.</i> 1996 , 133, 167-175	1,289 (1997)	6
6	M. A. Casadei, S. Cesa,	The O ₂ -/CO ₂ system as mild and safe	<i>Tetrahedron</i> , 1997 , 53, 167-	2,327	39

	M. Feroci, A. Inesi, L. Rossi, <u>F. Micheletti Moracci</u>	carboxylating reagent. Synthesis of organic carbonates	176		
7	A. Inesi, L. Rossi, <u>M. Feroci</u> , M. Rizzuto	Electrochemically-induced Favorskii rearrangement. α,β -Unsaturated amides and esters in the electrochemical reduction of polyhaloketones	<i>New J. Chem.</i> , 1998 , 57-61	1,797	12
8	M. Feroci, A. Inesi, L. Rossi, G. Sleiter	Electrochemically induced <i>N</i> -alkylation of pyrroles	<i>Eur. J. Org. Chem.</i> , 1999 , 955-958	2,150 (2000)	4
9	M. Feroci, A. Inesi, <u>L. Rossi</u>	A simple and convenient method for preparation of sulfides	<i>Synth. Comm.</i> , 1999 , 29, 2611-2615	0,860	8
10	M.A. Casadei, S. Cesa, M. Feroci, <u>A. Inesi</u>	Facile stereoselective conversion of 1,2-diols into alkane-1,2-diyl carbonates	<i>New J. Chem.</i> , 1999 , 4, 433-436	2,206	16
11	<u>M. Feroci</u> , <u>A. Inesi</u> , V. Mucciante, L. Rossi	New synthesis of oxazolidin-2-ones	<i>Tetrahedron Lett.</i> , 1999 , 40, 6059-6060	2,400	27
12	M. Feroci, <u>A. Inesi</u> , L. Rossi	The reaction of amines with an electrogenerated base. Improved synthesis of arylcarbamic esters	<i>Tetrahedron Lett.</i> , 2000 , 41, 963-966	2,558	45
13	M. A. Casadei, <u>M. Feroci</u> , <u>A. Inesi</u> , 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	<i>J. Org. Chem.</i> , 2000 , 65, 4759-4761	3,689	36
14	<u>I. Chiarotto</u> , <u>M. Feroci</u>	Palladium-catalyzed electrochemical carbonylation of 2-amino-1-alkanols to oxazolidin-2-ones under very mild conditions	<i>Tetrahedron Lett.</i> , 2001 , 42,3451-3453	2,280	33
15	<u>M. Feroci</u> , <u>A. Inesi</u> , L. Rossi, G. Sotgiu	Electrochemically induced <i>N</i> -acryloylation of chiral oxazolidin-2-ones	<i>Eur. J. Org. Chem.</i> , 2001 , 2765-2769	2,193	4
16	M. Feroci, <u>A. Inesi</u> , M. Orsini, L. Rossi, G. Sotgiu	An efficient electrochemical method for <i>N</i> -acryloylation of oxazolidin-2-ones chiral auxiliaries with α,α' -polyhaloketones	<i>J. Electroanal. Chem.</i> , 2001 , 507, 89-95	1,960	5
17	<u>M. Feroci</u> , <u>A. Inesi</u> , L. Palombi, L. Rossi, G. Sotgiu	Electrogenerated base induced <i>N</i> -acylation of chiral oxazolidin-2-ones	<i>J. Org. Chem.</i> , 2001 , 66, 6185-6188	3,280	15
18	M. Feroci, <u>A. Inesi</u> , <u>L. Palombi</u> , L. Rossi	Electrochemical generation of chiral oxazolidin-2-ones anions: a new procedure for the highly diastereoselective conjugate addition to nitroalkenes	<i>Tetrahedron Asymmetry</i> 2001 , 12, 2331-2335	2,265	16
19	<u>M. Feroci</u> , <u>A. Inesi</u> , L. Palombi, G. Sotgiu	Electrogenerated base-induced <i>N</i> -acylation of chiral oxazolidin-2-ones. 2.	<i>J. Org. Chem.</i> , 2002 , 67, 1719-1721	3,217	24
20	<u>L. Palombi</u> , M. Feroci, M. Orsini, L. Rossi, <u>A. Inesi</u>	Electrochemical generation of tetraethylammonium <i>N</i> -acetoacetyloxazolidin-2-one enolates: an easy access to α -alkylated acetoacetic derivatives	<i>Tetrahedron Lett.</i> , 2002 , 43, 2881-2884	2,357	14
21	<u>A. Inesi</u> , M. Feroci, L. Rossi, G. Sotgiu	Electrochemical methods for the synthesis and the <i>N</i> -acryloylation of oxazolidin-2-ones chiral auxiliaries	<i>Recent Res. Devel. Organic Chem.</i> , 2002 , 6, 75-85	no	-
22	V. Mucciante, <u>L. Rossi</u> , M. Feroci, G. Sotgiu	A safe synthesis of symmetrical carbonates from alkyl halides and tetraethylammonium carbonate	<i>Synth. Commun.</i> 2002 , 32, 1205-1210	0,802	7
23	<u>M. Feroci</u> , A. Gennaro, <u>A. Inesi</u> , M. Orsini, L. Palombi	Synthesis of chiral oxazolidin-2-ones by 1,2-amino alcohols, carbon dioxide and electrogenerated acetonitrile anion	<i>Tetrahedron Lett.</i> , 2002 , 43, 5863-5865	2,357	55
24	<u>M. Feroci</u> , <u>A. Inesi</u> , M. Orsini, L. Palombi	Electrochemical carboxylation of <i>N</i> -(2-bromopropionyl)-4 <i>R</i> -phenyloxazolidin-2-one: an efficient route to unsymmetrical methylmalonic ester derivatives	<i>Organic Letters</i> , 2002 , 4, 2617-2620	3,715	17
25	M. Verdecchia, M. Feroci, L. Palombi, <u>L. Rossi</u>	A safe and mild synthesis of organic carbonates from alkyl halides and tetrabutylammonium alkyl carbonates	<i>J. Org. Chem.</i> , 2002 , 67, 8287-8289	3,217	36
26	<u>L. Palombi</u> , M. Feroci,	Electrochemically-initiated Michael	<i>Tetrahedron: Asymmetry</i>	2,163	22

	M. Orsini, <u>A. Inesi</u>	addition of chiral acetoacetic derivatives to methyl vinyl ketone. Stereocontrolled construction of quaternary carbon centers	2002 , 13, 2311-2316		
27	M. Feroci, M. A. Casadei, M. Orsini, L. Palombi, <u>A. Inesi</u>	The cyanomethyl anion/carbon dioxide system: an electrogenerated carboxylating reagent. Synthesis of carbamates under mild and safe conditions	<i>J. Org. Chem.</i> , 2003 , 68, 1548-1551	3,297	83
28	I. Chiarotto, <u>M. Feroci</u>	Selective and Environment Friendly Methodologies Based on the Use of Electrochemistry for Fine Chemical Preparation: an Efficient Synthesis of N,N'-Disubstituted Ureas	<i>J. Org. Chem.</i> , 2003 , 68, 7137-7139	3,297	34
29	<u>M. Feroci</u>	Electrochemical synthesis and N-acylation of oxazolidin-2-ones: recent developments	<i>Curr. Top. Electrochem.</i> , 2003 , 9, 207-212	no	-
30	M. Feroci, M. Orsini, L. Palombi, G. Sotgiu, A. Inesi	Electrochemically induced hydrogenolysis of 1,1-dibromoalkenes to vinyl bromides	<i>Electrochim. Acta</i> , 2004 , 49, 635-640	2,341	7
31	M. Feroci, M. Orsini, L. Palombi, G. Sotgiu, M. Colapietro, <u>A. Inesi</u>	Diastereoselective electrochemical carboxylation of chiral α -bromocarboxylic acid derivatives: an easy access to unsymmetrical alkylmalonic ester derivatives	<i>J. Org. Chem.</i> , 2004 , 69, 487-494	3,462	24
32	<u>L. Palombi</u> , M. Feroci, M. Orsini, <u>A. Inesi</u>	An innovative strategy for electrochemically-promoted addition reaction	<i>Chem. Commun.</i> , 2004 , 1846-1847	3,997	27
33	<u>L. Rossi</u> , M. Feroci, <u>A. Inesi</u>	The Electrogenerated Cyanomethyl Anion in Organic Synthesis	<i>Mini-Rev. Org. Chem.</i> , 2005 , 2, 79-90	0,613	30
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	<i>Electrochim. Acta</i> , 2005 , 50, 2029-2036	2,453	32
35	M. Orsini, <u>M. Feroci</u> , G. Sotgiu, <u>A. Inesi</u>	Stereoselective electrochemical carboxylation: 2-phenylsuccinates from chiral cinnamic acid derivatives	<i>Org. Biomol. Chem.</i> , 2005 , 3, 1202-1208	2,547	29
36	M. Feroci, M. Orsini, G. Sotgiu, L. Rossi, <u>A. Inesi</u>	Electrochemically promoted C-N bond formation from acetylenic amines and CO ₂ . Synthesis of 5-methylene-1,3-oxazolidin-2-ones	<i>J. Org. Chem.</i> , 2005 , 70, 7795-7798	3,675	99
37	M. Feroci, J. Lessard, M. Orsini, <u>A. Inesi</u>	Electrogenerated cyanomethyl anion in organic synthesis: a simple diastereoselective synthesis of <i>cis</i> -3-alkyl-1-benzyl-4-ethoxycarbonyl- β -lactams	<i>Tetrahedron Lett.</i> 2005 , 46, 8517-9	2,477	25
38	<u>L. Rossi</u> , M. Feroci, M. Verdecchia, <u>A. Inesi</u>	Electrogenerated cyanomethyl anion in organic synthesis. Synthesis of 1,3-oxazolidine-2,4-diones	<i>Lett. Org. Chem.</i> , 2005 , 2, 731-733	1,122	13
39	I. Chiarotto, M. Feroci	Electrosynthesis of heteroaromatic aldehydes by palladium-catalyzed carbonylation of heteroaromatic iodides in the presence of formic acid	<i>J. Organomet. Chem.</i> 2006 , 691, 2589-2592	2,332	6
40	M. Feroci, M. Orsini, L. Rossi, G. Sotgiu, <u>A. Inesi</u>	An electrochemical alternative strategy to the synthesis of β -lactams. Part 2 [1] C3-C4 Bond formation	<i>Electrochim. Acta</i> 2006 , 51, 5540-5547	2,955	19
41	T. Caruso, M. Feroci, A. Inesi, M. Orsini, A. Scettri, <u>L. Palombi</u>	Electrochemically induced addition reactions in the absence of solvent and supporting electrolyte	<i>Adv. Synth. Catal.</i> , 2006 , 348, 1942-1947	4,762	20
42	A. La Groia, M. Feroci, A. Inesi, <u>L. Rossi</u>	Electrochemical synthesis of selenocarbonates	<i>Lett. Org. Chem.</i> , 2006 , 3, 854-856	1,004	1
43	M. Feroci, M. Orsini, L. Rossi, G. Sotgiu, <u>A. Inesi</u>	Electrochemically promoted C-N bond formation from amines and CO ₂ in ionic liquid BMIm-BF ₄ : synthesis of carbamates	<i>J. Org. Chem.</i> 2007 , 72, 200-203	3,959	106
44	M. Feroci, M. Orsini, L. Palombi, <u>A. Inesi</u>	Electrochemically induced Knoevenagel condensation in solvent- and supporting	<i>Green Chem.</i> 2007 , 9, 323-325	4,836	29

		electrolyte-free conditions			
45	<u>L. Rossi, G. Bianchi, M. Feroci, A. Inesi</u>	Electrochemically induced Aza-Henry reaction: a new, mild, and clean synthesis of α -nitroamines	<i>Synlett</i> 2007 , 2505-2508	2,763	8
46	<u>M. Feroci</u>	Synthesis of β -lactams by 4-exo-tet cyclization process induced by electrogenerated cyanomethyl anion, part 2. Stereochemical implications	<i>Adv. Synth. Catal.</i> , 2007 , 349, 2177-2181	4,977	15
47	<u>M. Feroci, M. Orsini, G. Sotgiu, A. Inesi</u>	The Knoevenagel reaction in electrochemically activated solvents	<i>Electrochim. Acta</i> , 2008 , 53, 2346-2354	3,078	4
48	<u>M. Feroci, I. Chiarotto, M. Orsini, G. Sotgiu, A. Inesi</u>	Reactivity of electrogenerated N-heterocyclic carbene in room-temperature ionic liquids. Cyclization to 2-azetidinone ring via C3-C4 bond formation	<i>Adv. Synth. Catal.</i> , 2008 , 350, 1355-1359	5,619	50
49	<u>G. Sotgiu, I. Chiarotto, M. Feroci, M. Orsini, L. Rossi, A. Inesi</u>	An electrochemical alternative strategy to the synthesis of β -lactams Part 3 [1]. Room-temperature ionic liquids vs molecular organic solvents	<i>Electrochim. Acta</i> , 2008 , 53, 7852-7858	3,078	28
50	<u>M. Feroci, I. Chiarotto, L. Rossi, A. Inesi</u>	Activation of elemental sulfur by electrogenerated cyanomethyl anion: synthesis of substituted 2-aminothiophenes by Gewald reaction	<i>Adv. Synth. Catal.</i> , 2008 , 350, 2740-2746	5,619	43
51	<u>I. Chiarotto, M. M. M. Feeney, M. Feroci, A. Inesi</u>	Electrogenerated N-heterocyclic carbene. N-Acylation of chiral oxazolidin-2-ones in ionic liquids	<i>Electrochim. Acta</i> , 2009 , 54, 1638-1644	3,325	29
52	<u>I. Chiarotto, M. Feroci, M. Orsini, G. Sotgiu, A. Inesi</u>	Electrogenerated N-heterocyclic carbene. N-Functionalization of benzoxazolones	<i>Tetrahedron</i> , 2009 , 65, 3704-3710	3,219	28
53	<u>M. Feroci, M. N. Elinson, L. Rossi, A. Inesi</u>	The double role of ionic liquids in organic electrosynthesis: precursors of N-heterocyclic carbenes and green solvents. Henry reaction	<i>Electrochim. Commun.</i> 2009 , 11, 1523-1526	4,243	28
54	<u>G. Bianchi, M. Feroci, L. Rossi</u>	Reaction of the electrogenerated cyanomethyl anion with carbonyl compounds: a clean and safe synthesis of β -hydroxynitriles	<i>Eur. J. Org. Chem.</i> 2009 , 3863-3866	3,096	10
55	<u>M. Feroci, M. Orsini, A. Inesi</u>	An efficient combined electrochemical and ultrasound assisted synthesis of imidazole-2-thiones	<i>Adv. Synth. Catal.</i> , 2009 , 351, 2067-2070	5,187	21
56	<u>M. Feroci, I. Chiarotto, M. Orsini, A. Inesi</u>	Electrogenerated NHC as an organocatalyst in the Staudinger reaction	<i>Chem. Commun.</i> 2010 , 46, 4121-4123	5,787	33
57	<u>I. Chiarotto, M. Feroci, M. Orsini, M. M. M. Feeney, A. Inesi</u>	Study on the Reactivity of Aldehydes in Electrolyzed Ionic Liquids. Benzoin Condensation: VOCs (Volatile Organic Compounds) vs RTILs (Room Temperature Ionic Liquids)	<i>Adv. Synth. Catal.</i> , 2010 , 352, 3287-3292	5,250	23
58	<u>M. Feroci, I. Chiarotto, M. Orsini, G. Sotgiu, A. Inesi</u>	Carbon dioxide as carbon source: activation via electrogenerated O_2^- in ionic liquids	<i>Electrochim. Acta</i> , 2011 , 56, 5823-5827	3,832	24
59	<u>M. Orsini, I. Chiarotto, M. M. M. Feeney, M. Feroci, G. Sotgiu, A. Inesi</u>	Umpolung of α,β -unsaturated aldehydes by electrogenerated NHCs in ionic liquids: synthesis of γ -butyrolactones	<i>Electrochim. Commun.</i> , 2011 , 13, 738-741	4,859	21
60	<u>M. Feroci</u>	Investigation of the Role of Electrogenerated N-Heterocyclic Carbene in the Staudinger Synthesis in Ionic Liquid	<i>Int. J. Org. Chem.</i> , 2011 , 1, 191-201	no	-
61	<u>M. Feroci, M. Orsini, L. Rossi, A. Inesi</u>	The double role of ionic liquids in electroorganic synthesis: Green solvents and precursors of N-heterocyclic carbenes	<i>Curr. Org. Synth.</i> , 2012 , 9, 40-52	2,038	17
62	<u>M. Feroci, D. De Vita, L. Scipione, G. Sotgiu, S. Tortorella</u>	Electrogenerated acetonitrile anion induced selective N-alkylation of bifunctional compounds	<i>Tetrahedron Lett.</i> , 2012 , 53, 2564-2567	2,397	7
63	<u>M. Feroci, I. Chiarotto,</u>	Umpolung reactions in ionic liquid	<i>Chem. Commun.</i> , 2012 , 48,	6,378	36

	M. Orsini, R. Pelagalli, <u>A. Inesi</u>	catalyzed by electrogenerated N-heterocyclic carbenes. Synthesis of saturated esters from activated α,β -unsaturated aldehydes	5361-5363		
64	<u>R. Pelagalli</u> , I. Chiarotto, M. Feroci, S. Vecchio	Isopropenyl acetate, a remarkable, cheap and acylating agent of amines under solvent- and catalyst-free conditions: a systematic investigation	<i>Green Chem.</i> , 2012 , <i>14</i> , 2251-2255	6,828	37
65	I. Chiarotto, M. Feroci, G. Sotgiu, <u>A. Inesi</u>	Electrogenerated N-heterocyclic carbene in the parent room temperature ionic liquid as efficient medium for the transesterification/acylation reaction	<i>Eur. J. Org. Chem.</i> , 2013 , 326-331	3,154	24
66	M. Feroci, I. Chiarotto, <u>A. Inesi</u>	Internal redox amidation of α,β -unsaturated aldehydes in ionic liquids. The electrochemical route	<i>Electrochim. Acta</i> , 2013 , <i>89</i> , 692-699	4,086	13
67	M. Feroci, I. Chiarotto, <u>A. Inesi</u>	Electrolysis of Ionic Liquids. A Possible Keystone for the Achievement of Green Solvent-Catalyst Systems	<i>Curr. Org. Chem.</i> , 2013 , <i>17</i> , 204-219	2,537	26
68	L. Friggeri, F. Ballante, <u>R. Ragno</u> , I. Musmuca, D. De Vita, F. o Manetti, M. Biava, L. Scipione, R. Di Santo, R. Costi, M. Feroci, S. Tortorella	Pharmacophore Assessment Through 3-D QSAR: evaluation of the predictive ability on new derivatives by the application on a serie of antitubercular agents	<i>J. Chem. Inf. Model.</i> , 2013 , <i>53</i> , 1463-1474	4,068	9
69	I. Chiarotto, M. Feroci, G. Sotgiu, <u>A. Inesi</u>	The dual role of ionic liquid BmimBF ₄ , precursor of N-heterocyclic carbene and solvent, in the oxidative esterification of aldehydes	<i>Tetrahedron</i> , 2013 , <i>69</i> , 8088-8095	2,817	23
70	M. Feroci, I. Chiarotto, S. Vecchio Cipriotti, <u>A. Inesi</u>	On the reactivity and stability of electrogenerated N-heterocyclic carbene in parent 1-butyl-3-methyl-1 <i>H</i> -imidazolium tetrafluoroborate: Formation and use of N-heterocyclic carbene-CO ₂ adduct as latent catalyst	<i>Electrochim. Acta</i> , 2013 , <i>109</i> , 95-101	4,086	35
71	M. Feroci, I. Chiarotto, G. Forte, A. Inesi	An electrochemical methodology for the cyclic CO ₂ "catch and release". The role of the electrogenerated N-heterocyclic carbene in BMIm-BF ₄	<i>J. CO₂ Util.</i> , 2013 , <i>2</i> , 29-34	3,091 (2014)	24
72	M. Feroci, I. Chiarotto, G. Forte, G. Simonetti, F. D. D'Auria, L. Maes, L. Scipione, L. Friggeri, R. Di Santo, D. De Vita, S. Tortorella	Efficient electrochemical N-alkylation of <i>N</i> -Boc-protected 4-aminopyridines: towards new biologically active compounds	<i>ISRN Org. Chem.</i> , 2014 , 10 pages, doi: 10.1155/2014/621592	no	-
73	G. Forte, I. Chiarotto, A. Inesi, M. A. Loreto, M. Feroci	Electrogenerated <i>N</i> -Heterocyclic Carbene in Ionic Liquid: an Insight into the Mechanism of the Oxidative Esterification of Aromatic Aldehydes	<i>Adv. Synth. Catal.</i> , 2014 , <i>356</i> , 1773-1781	5,663	19
74	M. Feroci, I. Chiarotto, G. Forte, S. Vecchio Cipriotti, <u>A. Inesi</u>	Stability and CO ₂ Capture Ability of Electrogenerated <i>N</i> -Heterocyclic carbene in the Parent 1-Butyl-3-methylimidazolium ionic liquid (BMIm-X): the role of the anion X ⁻	<i>ChemElectroChem.</i> , 2014 , <i>1</i> , 1407-1414	3,506 (2015)	26
75	I. Chiarotto, M. Feroci, G. Forte, M. Orsini, <u>A. Inesi</u>	Proton Exchange Equilibrium between bases and BMImBF ₄ . An Electrochemical Procedure to Evaluate the Presence of Carbene for Synthetic Applications	<i>ChemElectroChem.</i> , 2014 , <i>1</i> , 1525-1530	3,506 (2015)	9
76	M. Feroci, I. Chiarotto, F. D'Anna, G. Forte, R. Noto, <u>A. Inesi</u>	Stability and Organocatalytic Efficiency of <i>N</i> -Heterocyclic Carbenes Electrogenerated in Organic Solvents from Imidazolium Ionic Liquids	<i>Electrochim. Acta</i> , 2015 , <i>153</i> , 122-129	4,803	25
77	I. Chiarotto, M. Feroci, G. Forte, <u>A. Inesi</u>	Stability of electrogenerated 1-butyl-3-methylimidazol-2-ylidene in DMF. Part 2. Role of acid substrates	<i>Electrochim. Acta</i> , 2015 , <i>176</i> , 627-635	4,803	9

78	<u>G. Forte</u> , I. Chiarotto, I. Giannicchi, M. A. Loreto, A. Martinelli, R. Micci, F. Pepi, S. Rossi, C. Salvitti, A. Stringaro, L. Tortora, S. Vecchio Cipriotti, <u>M. Feroci</u>	Characterization of Naproxen-Polymer Conjugates for Drug-Delivery	<i>J. Biomat. Science: Polymer Ed.</i> , 2016 , 27, 69-85	1,900	6
79	<u>M. Feroci</u> , I. Chiarotto, F. D'Anna, L. Ornano, C. Rizzo, <u>A. Inesi</u>	Azolium and acetate ions in DMF: formation of free N-heterocyclic carbene. A voltammetric analysis	<i>Electrochem. Commun.</i> , 2016 , 67, 55-58	4,396	5
80	<u>M. Feroci</u> , I. Chiarotto, F. D'Anna, F. Gala, R. Noto, L. Ornano, G. Zollo, <u>A. Inesi</u>	N-Heterocyclic carbenes and parent cations: acidity, nucleophilicity, stability and hydrogen bonding. Electrochemical study and ab initio calculations	<i>ChemElectroChem</i> , 2016 , 3, 1133-1141	4,136	18
81	<u>M. Feroci</u> , I. Chiarotto, <u>A. Inesi</u>	Advances in the knowledge of N-heterocyclic carbenes properties. The backing of the electrochemical investigation	<i>Catalysts</i> , 2016 , 6, 178	3,082	18
82	D. De Vita, F. Pandolfi, L. Ornano, M. Feroci, I. Chiarotto, I. Sileno, F. Pepi, R. Costi, R. Di Santo, <u>L. Scipione</u>	New N,N-dimethylcarbamate inhibitors of acetylcholinesterase: design synthesis and biological evaluation	<i>J. Enzyme Inhib. Med. Chem.</i> , 2016 , 31, 106-113	4,293	9
83	M. Papa, I. Chiarotto, <u>M. Feroci</u>	Willgerodt-Kindler Reaction of Benzaldehydes: A Comparative Study for a Sustainable Synthesis of Secondary Thiobenzamides	<i>ChemistrySelect</i> , 2017 , 2, 3207-3210	1,505	6
84	<u>S. Marullo</u> , M. Feroci, R. Noto, <u>F. D'Anna</u>	Insights into the anion effect on the self assembly of perylene bisimide diimidazolium salts	<i>Dyes Pigm.</i> , 2017 , 146, 54-65	3,767	5
85	<u>I. Chiarotto</u> , M. Feroci, <u>A. Inesi</u>	First direct evidence of N-heterocyclic carbene in BMIm acetate ionic liquid. An electrochemical and chemical study on the role of temperature	<i>New J. Chem.</i> , 2017 , 41, 7840-7843	3,201	13
86	<u>G. Forte</u> , I. Chiarotto, F. Richter, V. Trieu, <u>M. Feroci</u>	Towards a sustainable electrochemical activation for recycling CO ₂ : synthesis of bis-O-alkylcarbamates from aliphatic and benzyl diamines	<i>React. Chem. Eng.</i> 2017 , 2, 646-649	4,641	7
87	F. Pandolfi, I. Chiarotto, D. Rocco, <u>M. Feroci</u>	Electrogenerated superoxide anion induced oxidative amidation of benzoin	<i>Electrochim. Acta</i> 2017 , 254, 358-367	5,116	5
88	F. Billeci, <u>F. D'Anna</u> , I. Chiarotto, M. Feroci, S. Marullo	The anion impact on the self-assembly of naphthalene diimide diimidazolium salts	<i>New J. Chem.</i> , 2017 , 41, 13889-13901	3,201	5
89	<u>M. Feroci</u> , I. Chiarotto, M. Orsini, F. Pandolfi, D. Zane, A. Inesi	Electrogenerated N-Heterocyclic Olefin (NHO): Stability and Catalytic Ability	<i>ChemElectroChem</i> , 2018 , 5, 651-658	3,975	3
90	<u>M. Miceli</u> , E. Roma, P. Rosa, M. Feroci, M. A. Loreto, D. Tofani, <u>T. Gasperi</u>	Synthesis of benzofuran-2-one derivatives and evaluation of their antioxidant capacity by comparing DPPH assay and Cyclic Voltammetry	<i>Molecules</i> , 2018 , 23, 710	3,060	8
91	F. Pandolfi, I. Chiarotto, <u>M. Feroci</u>	Electrochemically modified Corey-Fuchs reaction for the synthesis of arylalkynes. The case of 2-(2,2-dibromovinyl)naphthalene	<i>Beil. J. Org. Chem.</i> , 2018 , 14, 891-899	2,595	2
92	F. Pandolfi, M. Feroci, <u>I. Chiarotto</u>	Role of anion and cation in the 1-methyl-3-butylimidazolium ionic liquids BMImX: the Knoevenagel condensation	<i>ChemistrySelect</i> , 2018 , 3, 4745-4749	1,716	15
93	F. Pandolfi, L. Mattiello, <u>D. Zane</u> , <u>M. Feroci</u>	Electrochemical behaviour of 9-methylcaffeinium iodide and in situ electrochemical synthesis of hymeniacidin	<i>Electrochim. Acta</i> , 2018 , 280, 71-76	5,383	9
94	<u>I. Chiarotto</u> , L. Mattiello, F. Pandolfi, D. Rocco, <u>M. Feroci</u>	NHC in Imidazolium Acetate Ionic Liquids: Actual or Potential Presence?	<i>Front. Chem.</i> 2018 , 6:355. doi: 10.3389/fchem.2018.00355	3,782	17

95	<u>G. Forte</u> , I. Chiarotto, F. Richter, V. Trieu, <u>M. Feroci</u>	Sustainable Carboxylation of Diamines with Hydrogen Carbonate	<i>Org. Process Res. Dev.</i> 2018 , <i>22</i> , 1323-1327	3,327	-
96	D. Rocco, I. Chiarotto, F. D'Anna, L. Mattiello, F. Pandolfi, C. Rizzo, <u>M. Feroci</u>	Cathodic behaviour of dicationic imidazolium bromides: the role of the spacer	<i>ChemElectroChem</i> 2019 , <i>6</i> , 4275-4283	4,154	13
97	F. Pandolfi, I. Chiarotto, L. Mattiello, D. Rocco, <u>M. Feroci</u>	Cathodic reduction of caffeine: amino-functionalized imidazole from a bio-based reagent	<i>Synlett</i> 2019 , <i>30</i> , 1215-1218	2,006	8
98	M. Feroci, F. Pandolfi, R. Petrucci, D. Rocco, D. Zane, <u>L. Mattiello</u>	Electrochemical studies of new donor-acceptor oligothiophenes	<i>ChemElectroChem</i> 2019 , <i>6</i> , 4016-4021	4,154	3
99	I. Chiarotto, L. Mattiello, F. Pandolfi, D. Rocco, <u>M. Feroci</u> , <u>R. Petrucci</u>	Electrochemical oxidation of theophylline in organic solvents: HPLC-PDA-ESI-MS/MS analysis of the oxidation products	<i>ChemElectroChem</i> 2019 , <i>6</i> , 4511-4521	4,154	5
100	I. Chiarotto, L. Mattiello, <u>M. Feroci</u>	The electrogenerated cyanomethyl anion: an old base still smart	<i>Acc. Chem. Res.</i> 2019 , <i>52</i> , 3297-3308	20,834	5
101	F. Pandolfi, I. Chiarotto, L. Mattiello, R. Petrucci, <u>M. Feroci</u>	Two Different Selective Ways in the Deprotonation of β -Bromopropionanilides: β -Lactams or Acrylanilides Formation	<i>ChemistrySelect</i> , 2019 , <i>4</i> , 12871-12874	1,811	4
102	R. Petrucci, I. Chiarotto, L. Mattiello, D. Passeri, M. Rossi, G. Zollo, <u>M. Feroci</u>	Graphene oxide: a smart (starting) material for natural methylxanthines adsorption and detection	<i>Molecules</i> 2019 , <i>24</i> , 4247	3,267	10
103	F. Billeci, F. D'Anna, M. Feroci, P. Cancemi, S. Feo, A. Forlino, F. Tonnelli, K. Seddon, <u>H. Q. N. Gunaratne</u> , N. Plechkova	When functionalisation comes in useful: ionic liquids with a "sweet" appended moiety demonstrate drastically reduced toxicological effects	<i>ACS Sus. Chem. Eng.</i> 2020 , <i>8</i> , 926-938	7,632 (2019)	15
104	M. Feroci, M. Bortolami, I. Chiarotto, P. Di Matteo, L. Mattiello, F. a Pandolfi, D. Rocco, <u>R. Petrucci</u>	An insight on the reactivity of the electrogenerated radical cation of caffeine	<i>Electrochem</i> 2020 , <i>1</i> , 44-55	no	-
105	<u>F. D'Anna</u> , <u>M. Luisa Grilli</u> , R. Petrucci, <u>M. Feroci</u>	WO ₃ and ionic liquids : a synergic pair for pollutant gas sensing and desulfurization	<i>Metals</i> 2020 , <i>10</i> , 475	2,117 (2019)	4
106	M. Bortolami, F. Pandolfi, D. De Vita, C. Carafa, A. Messori, R. Di Santo, M. Feroci, R. Costi, I. Chiarotto, D. Bagetta, <u>S. Alcaro</u> , M. Colone, A. Stringaro, <u>L. Scipione</u>	New deferiprone derivatives as multi-functional cholinesterase inhibitors: design, synthesis and in vitro evaluation	<i>Eur. J. Med. Chem.</i> 2020 , <i>198</i> , 112350	5,573 (2019)	6
107	V. Scarano, M. Bortolami, F. Pandolfi, R. Petrucci, D. Rocco, G. Zollo, <u>M. Feroci</u>	Reaction of Electrogenerated Cyanomethyl Anion with Cyclohexylisocyanate: Synthesis of N-(cyclohexylcarbamoyl) acetamide. An Unexpected Product	<i>J. Electrochem. Soc.</i> , 2020 , <i>167</i> , 155514	3,721 (2019)	-
108	C. Rizzo, S. Marullo, M. Feroci, V. Accurso, F. D'Anna	Insights into the Effect of the Spacer on the Properties of Imidazolium based AIE Luminogens	<i>Dyes Pigm.</i> 2021 , <i>186</i> , 109035	4,613 (2019)	1
109	<u>R. Petrucci</u> , M. Feroci, L. Mattiello, <u>I. Chiarotto</u>	Xanthine scaffold: available synthesis routes to deliver diversity by derivatization	<i>Mini-Rev. Org. Chem.</i> 2021 , <i>18</i> , 27-42	1,824 (2019)	1
110	M. Bortolami, I. Chiarotto, L. Mattiello, R. Petrucci, D. Rocco, F. Vetica, <u>M. Feroci</u>	Organic Electrochemistry: Synthesis and Functionalization of β -Lactams in the twenty-first Century	<i>Heterocyclic Commun</i> , 2021 , <i>27</i> , 32-44	1,057 (2019)	-

111	M. Bortolami, <u>F. Pandolfi</u> , A. Messore, D. Rocco, M. Feroci, R. Di Santo, D. De Vita, R. Costi, P. Cascarino, <u>G. Simonetti</u> , L. Scipione	Design, synthesis and biological evaluation of a series of iron and copper chelating deferiprone derivatives as new agents active against <i>Candida albicans</i>	<i>Bioorg. Med. Chem. Lett.</i> 2021 , 42, 128087	2,572 (2019)	1
112	M. Bortolami, F. Leonelli, M. Feroci, <u>F. Vetica</u>	Step economy in the Stereoselective Synthesis of Functionalized Oxindoles via Organocatalytic Domino/One-pot Reactions	<i>Curr. Org. Chem.</i> 2021 , 25, 1321-1344.	1,933 (2019)	-
113	<u>F. D'Anna</u> , F. Pandolfi, D. Rocco, S. Marullo, M. Feroci, <u>L. Mattiello</u>	Solvatochromic behaviour of new donor-acceptor oligothiophenes	<i>New J. Chem.</i> , 2021 , 45, 11636-11642	3,288 (2019)	-
114	<u>F. Vetica</u> , M. Bortolami, R. Petrucci, D. Rocco, <u>M. Feroci</u>	Electrogenerated NHCs in organic synthesis: ionic liquids vs organic solvents effects	<i>Chem. Rec.</i> , 2021 , 21, 2130-2147.	6,163 (2019)	3
115	R. Petrucci, P. Di Matteo, M. Bortolami, M. Feroci, V. Scarano	Electrochemical transformations of methylxanthines in non-aqueous medium	<i>ChemElectroChem</i> , 2021 , 8, 2745-2763.	4,184 (2019)	1
116	Fabiana Pandolfi, Martina Bortolami, Marta Feroci, Leonardo Mattiello, Vincenzo Scarano, <u>Daniele Rocco</u>	Electrochemistry, a Useful Tool in the Synthesis of Oligothiophenes	<i>Curr. Org. Chem.</i> 2021 , 25, 1321-1344. DOI: 10.2174/1385272825666210715104931	1,933 (2019)	-
117	Martina Bortolami, Leonardo Mattiello, Vincenzo Scarano, Fabrizio Vetica, <u>Marta Feroci</u>	In Situ Anodically Oxidized BMIm-BF ₄ : A Safe and Recyclable BF ₃ Source	<i>J. Org. Chem.</i> , 2021 , DOI: 10.1021/acs.joc.1c00932	4,335 (2019)	-

citazioni al 2021-09-28

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

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.
- 3) L. Ornano, M. Feroci, L. Guarcini, A. Venditti, A. 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

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) M. Feroci, M. Orsini, L. Palombi, A. Inesi
"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 beta-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, 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, 13-18.
- 7) D. Rocco, I. Chiarotto, L. Mattiello, F. Pandolfi, D. Zane, M. Feroci
"Electrochemical synthesis and amidation of benzoin: benzamides from benzaldehydes"
Pure Appl. Chem. **2019**, 91, 1709-1715. doi: 10.1515/pac-2018-1118
- 8) R. Petrucci, I. Chiarotto, L. Mattiello, F. Pandolfi, D. Rocco, G. Zollo, M. 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) M. Feroci, T. Civitarese, F. Pandolfi, R. Petrucci, D. Rocco, G. Zollo, L. Mattiello
"A series of new conjugated oligothiophenes for organic electronics"
AIP Conference Proceedings 2257, 020008 (**2020**); <https://doi.org/10.1063/5.0023648>

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	116	Scopus + WoS	1993	2021
Papers [international]	108	Scopus	1995	2021
Proceedings [international]	9	Scopus + WoS	1998	2020
Chapters in Books [scientific]	3	Scopus + WoS	1998	2012
Patents [international]	2	Espacenet	2014	2017

Conference papers	106		1992	2021
Papers in last 10 years (2011-2021)	55	Scopus	2011	2021

Total Impact factor	389,096 (112 papers with IF)
Average Impact factor	389,096 /112=3,474
Total Citations (at 2021-09-28)	2031 (Scopus, 116 total papers)
Average Citations per Product	2031/116=17,5 (Scopus)
Hirsch (H) index	27
Normalized H index*	27/29= 0,93
Last 15 years Hirsch (H) index (2006-2021)	21 (Scopus)

*H index divided by the academic seniority.

Part IX– Selected Publications

- 1) M. Bortolami, L. Mattiello, V. Scarano, F. Vetica, M. Feroci
 "In Situ Anodically Oxidized BMIm-BF₄: A Safe and Recyclable BF₃ Source"
J. Org. Chem., **2021**, DOI: 10.1021/acs.joc.1c00932
 (IF: 4,335 (2019); citazioni: -)
- 2) V. Scarano, M. Bortolami, F. Pandolfi, R. Petrucci, D. Rocco, G. Zollo, M. Feroci
 „Reaction of Electrogenerated Cyanomethyl Anion with Cyclohexylisocyanate: Synthesis of *N*-
 (cyclohexylcarbamoyl) acetamide. An Unexpected Product”
J. Electrochem. Soc., **2020**, *167*, 155514
 (IF: 3,721 (2019); citazioni: -)
- 3) I. Chiarotto, L. Mattiello, M. Feroci
 "The electrogenerated cyanomethyl anion: an old base still smart"
Acc. Chem. Res. **2019**, *52*, 3297-3308.
 (IF: 20,834; citazioni: 5)
- 4) D. Rocco, I. Chiarotto, F. D'Anna, L. Mattiello, F. Pandolfi, C. Rizzo, M. Feroci
 "Cathodic behaviour of dicationic imidazolium bromides: the role of the spacer"
ChemElectroChem **2019**, *6*, 4275-4283.
 (IF: 4,154; citazioni: 13)
- 5) F. Pandolfi, I. Chiarotto, D. Rocco, M. Feroci
 „Electrogenerated superoxide anion induced oxidative amidation of benzoin”
Electrochim. Acta **2017**, *254*, 358-367
 (IF: 5,116; citazioni: 5)
- 6) M. Feroci, I. Chiarotto, F. D'Anna, F. Gala, R. Noto, L. Ornano, G. Zollo, A. Inesi
 „N-Heterocyclic carbenes and parent cations: acidity, nucleophilicity, stability and hydrogen bonding.
 Electrochemical study and ab initio calculations”
ChemElectroChem, **2016**, *3*, 1133-1141
 (IF: 4,136; citazioni: 18)
- 7) M. Feroci, I. Chiarotto, F. D'Anna, G. Forte, R. Noto, A. Inesi
 „Stability and Organocatalytic Efficiency of N-Heterocyclic Carbenes Electrogenerated in Organic Solvents
 from Imidazolium Ionic Liquids”



Electrochim. Acta, **2015**, *153*, 122-129
(IF: 4,803; citazioni: 25)

8) G. Forte, I. Chiarotto, A. Inesi, M. A. Loreto, M. Feroci
„Electrogenerated N-Heterocyclic Carbene in Ionic Liquid: an Insight into the Mechanism of the Oxidative Esterification of Aromatic Aldehydes”
Adv. Synth. Catal., **2014**, *356*, 1773-1781
(IF: 5,663; citazioni: 19)

9) M. Feroci, I. Chiarotto, S. Vecchio Cipriotti, A. Inesi
„On the reactivity and stability of electrogenerated N-heterocyclic carbene in parent 1-butyl-3-methyl-1*H*-imidazolium tetrafluoroborate: Formation and use of N-heterocyclic carbene-CO₂ adduct as latent catalyst”
Electrochim. Acta, **2013**, *109*, 95-101
(IF: 4,086; citazioni: 35)

10) M. Feroci, I. Chiarotto, M. Orsini, R. Pelagalli, A. Inesi
„Umpolung reactions in ionic liquid catalyzed by electrogenerated N-heterocyclic carbenes. Synthesis of saturated esters from activated alpha,beta-unsaturated aldehydes”
Chem. Commun., **2012**, *48*, 5361-5363
(IF: 6,378; citazioni: 36)

11) M. Feroci, I. Chiarotto, M. Orsini, A. Inesi, „Electrogenerated NHC as an organocatalyst in the Staudinger reaction”
Chem. Commun. **2010**, *46*, 4121-4123

(IF: 5,787; citazioni: 33)

12) M. Feroci, I. Chiarotto, L. Rossi, A. Inesi
Activation of elemental sulfur by electrogenerated cyanomethyl anion: synthesis of substituted 2-aminothiophenes by Gewald reaction
Adv. Synth. Catal., **2008**, *350*, 2740-2746
(IF: 5,619; citazioni: 43)

13) 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”
Adv. Synth. Catal., **2008**, *350*, 1355-1359
(IF: 5,619; citazioni: 50)

14) M. Feroci
„Synthesis of beta-lactams by 4-exo-tet cyclization process induced by electrogenerated cyanomethyl anion, part 2. Stereochemical implications”
Adv. Synth. Catal., **2007**, *349*, 2177-2181
(IF: 4,977; citazioni: 15)

15) M. Feroci, M. Orsini, L. Rossi, G. Sotgiu, 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.
(IF: 3,959; citazioni: 106)

16) 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*, 7795-7798.
(IF: 3,675; citazioni: 99)

Roma, 28-09-2021

Marta Feroci

