

ELENCO COMPLETO DELLE PUBBLICAZIONI SCIENTIFICHE
ISABELLA CHIAROTTO

1. 2017 - Articolo in rivista
Floriana Billeci, Francesca D'Anna, Isabella Chiarotto, Marta Feroci, Salvatore Marullo
The anion impact on the self-assembly of naphthalene diimide diimidazolium salts.
New Journal of Chemistry, 2017, **41**, 13889-13901
2. 2017 - Articolo in rivista
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
3. 2017 - Articolo in rivista
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.
4. 2017 - Articolo in rivista
I. Chiarotto, M. Feroci, A. Inesi
First direct evidence of N-heterocyclic carbene in BMIIm acetate ionic liquids. An electrochemical and chemical study on the role of temperature
New J. Chem., 2017, **41**, 7840-7843
5. 2017 - Articolo in rivista
Fabiana Pandolfi, Isabella Chiarotto, Daniele Rocco, Marta Feroci
Electrogenerated superoxide anion induced oxidative amidation of benzoin
Electrochimica Acta 2017, **254**, 358–367
6. 2017 - BREVETTO
Inventori: I. Chiarotto, M. Feroci, G. Forte, A. Inesi, F. Richter, V. Trieu
Sustainable Synthesis of carbamate compounds. Applicant: Covestro AG (De)
International Publication Date 17.08.2017 WO2017/137343 A1
7. 2016 - Articolo in rivista
Isabella Chiarotto
Tetraethylammonium Hydrogen Carbonate:A Cheap, Efficient and Recyclable Catalyst for Transesterification Reactions Under Solvent-Free Conditions
SYNTHETIC COMMUNICATION, 2016, **46**, 1840-1847. DOI: 10.1080/00397911.2016.1233343
8. 2016 - Articolo in rivista
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. doi:10.3390/catal6110178
9. 2016 - Articolo in rivista
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 Ciprioli, Marta Feroci
Characterization of Naproxen-Polymer Conjugates for Drug-Delivery
JOURNAL OF BIOMATERIALS SCIENCE: POLYMER EDITION, 2016, **27**(1), 69-85.
10. 2016 - Articolo in rivista
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
11. 2016 - Articolo in rivista
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
CHEMSELECTROCHEM, 2016, vol. 3, 1133–1141, ISSN: 2196-0216, doi: 10.1002/celc.201600187

12. 2016 - BREVETTO

Inventori: I. Chiarotto, M. Feroci, G. Forte, H. Heckroth, A. Inesi, F. Richter, V. Trieu
Electrochemical synthesis of dicarbamates Applicant: Covestro AG (De)
International Publication Date 02.06.2016 WO2016/083475 A1

13. 2016 - Articolo in rivista

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, DOI: 10.1080/14756366.2016.1220377

14. 2015 - Articolo in rivista

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, doi: 10.1016/j.electacta.2015.06.129

15. 2015 - Articolo in rivista

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

16. 2014 - BREVETTO

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.

17. 2014 - Articolo in rivista

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
CHEMSELECTROCHEM., 2014, 1, 1525-1530. DOI: 10.1002/celc.201402134

18. 2014 - Articolo in rivista

Marta Feroci, Isabella Chiarotto, Gianpiero Forte, Stefano Vecchio Ciprioli, 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⁻
CHEMSELECTROCHEM., 2014, 1, 1407-1414. DOI: 10.1002/celc.201300269

19. 2014 - Articolo in rivista

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 & CATALYSIS, 2014, vol. 356, 20141773-1781. DOI: 10.1002/adsc.201400163

20. 2014 - Articolo in rivista

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, doi: 10.1155/2014/621592

21. 2013 - Articolo in rivista

Isabella Chiarotto, Marta Feroci, Giovanni Sotgiu, Achille Inesi
Electrogenerated N-heterocyclic carbene in the parent room temperature ionic liquid as efficient medium for the transesterification/acylation reaction
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, 2013, p. 326-331, ISSN:1434-193X, doi: 10.1002/ejoc.201201023

22. 2013 - Articolo in rivista

Marta Feroci, Isabella Chiarotto, Achille Inesi

Electrolysis of Ionic Liquids. A Possible Keystone for the Achievement of Green Solvent-Catalyst Systems
CURRENT ORGANIC CHEMISTRY, 2013, vol. 17, p. 204-219, ISSN:1385-2728, doi: 10.2174/1385272811317030003

23. 2013 - Articolo in rivista
Marta Feroci, Isabella Chiarotto, Achille Inesi
Internal redox amidation of α,β -unsaturated aldehydes in ionic liquids. The electrochemical route
ELECTROCHIMICA ACTA, 2013, vol. 89, p. 692-699, ISSN: 0013-4686, doi:10.1016/j.electacta.2012.11.061
24. 2013 - Articolo in rivista
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, p. 29-34, ISSN: 2212-9820, doi:10.1016/j.jcou.2013.07.002
25. 2013 - Articolo in rivista
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, vol. 68, p. 8088-8095, ISSN: 0040-4020, doi: 10.1016/j.tet.2013.06.014
26. 2013 - Articolo in rivista
M. Feroci, I. Chiarotto, S. Vecchio Ciprioli, A. Inesi
On the Reactivity and Stability of Electrogenerated N-Heterocyclic Carbene (NHC) in Parent BMIm-BF₄: Formation and use of NHC-CO₂ adduct as Latent Catalyst
ELECTROCHIMICA ACTA, 2013, vol. 109, p. 95-101, ISSN: 0013-4686, doi: 10.1016/j.electacta.2013.07.115
27. 2012 - Articolo in rivista
R. Pelagalli, 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
GREEN CHEMISTRY, 2012, vol. 14, p. 2251-2255, ISSN:1463-9262, doi:10.1039/c2gc35485c
28. 2012 - Articolo in rivista
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 α,β -unsaturated aldehydes.
CHEMICAL COMM., 2012, vol. 48, 5361-5363, ISSN: 1359-7345, doi: 10.1039/C2CC30371J
29. 2011 - Articolo in rivista
M. Feroci, I. Chiarotto, M. Orsini, G. Sotgiu, A. Inesi
Carbon dioxide as carbon source: Activation via electrogenerated O₂ [rad] - in ionic liquids
ELECTROCHIMICA ACTA, 2011, vol. 56(16), 5823-5827, ISSN: 0013-4686, doi: 10.1016/j.electacta.2011.04.067
30. 2011 - Articolo in rivista
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.
ELECTROCHEMISTRY COMM., 2011, vol. 13, 738-741, ISSN: 1388-2481, doi: 10.1016/j.elecom.2011.04.025
31. 2010 - Articolo in rivista
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&CATALYSIS, 2010, vol. 352, 3287-3292, ISSN: 1615-4150, doi: 10.1002/adsc.201000555
32. 2010 - Articolo in rivista
M. Feroci, I. Chiarotto, M. Orsini, A. Inesi
Electrogenerated NHC as an organocatalyst in the Staudinger reaction.
CHEMICAL COMM., 2010, vol. 46, p. 4121-4123, ISSN: 1359-7345, doi:10.1039/c002325f
33. 2010 - Articolo in rivista
M. Orsini, I. Chiarotto, G. Sotgiu, A. Inesi
Polarity reversal induced by electrochemically generated triazolo-2-ylidene: The Stetter reaction.
ELECTROCHIMICA ACTA, 2010, vol. 55(10), p. 3511-3517, ISSN: 0013-4686, doi: 10.1016/j.electacta.2010.01.082
34. 2010 - Articolo in rivista
M. Feroci, I. Chiarotto, M. Orsini, G. Sotgiu, A. Inesi
Reactivity of electrogenerated imidazole-2-ylidene in ionic liquids: synthetic implications.
ECS TRANSACTIONS, 2010, vol. 25 (18), p. 1-11, ISSN:1938-5862, doi: 10.1149/1.3312759

35. 2010 - Articolo in rivista
I. Chiarotto, M. Feroci, M. Orsini, G. Sotgiu, L. Rossi
Benzoin condensation in ionic liquids via electrochemical generation of carbene.
ECS TRANSACTIONS, **2010**, vol. 25 (18), p. 13-18, ISSN: 1938-5862, doi:10.1149/1.3312760
36. 2009 - Articolo in rivista
I. Chiarotto, M. Feroci, M. Orsini, G. Sotgiu, A. Inesi
Electrogenerated N-heterocyclic carbene. N-Functionalization of benzoxazolones.
TETRAHEDRON, **2009**, vol. 65, 3704-3710, ISSN: 0040-4020, doi: 10.1016/j.tet.2009.02.057
37. 2009 - Articolo in rivista
M. Orsini, I. Chiarotto, M. N. Elinson, G. Sotgiu, A. Inesi
Benzoin condensation in 1,3-dialkylimidazolium ionic liquids via electrochemical generation of N-heterocyclic carbene.
ELECTROCHEMISTRY COMMUNICATIONS, **2009**, vol.11, 1013-1017, ISSN:1388-2481,
doi:10.1016/j.elecom.2009.02.045
38. 2009 - Articolo in rivista
I. Chiarotto, M.M.M. Feeney, M. Feroci, A. Inesi
Electrogenerated N-heterocyclic carbene. N-Acylation of chiral oxazolidin-2-ones in ionic liquids.
ELECTROCHIMICA ACTA, **2009**, vol. 54, 1638-1644, ISSN:0013-4686, doi: 10.1016/j.electacta.2008.09.057
39. 2008 - Articolo in rivista
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**, vol. 350, p. 2740-2746, ISSN:1615-4150, doi: 10.1002/adsc.200800503
40. 2008 - Articolo in rivista
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**, vol. 350, 1355-1359, ISSN:1615-4150, doi: 10.1002/adsc.200800049
41. 2008 - Articolo in rivista
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 solvent.
ELECTROCHIMICA ACTA, **2008**, vol. 53, 7852-7858, ISSN: 0013-4686, doi: 10.1016/j.electacta.2008.05.054
42. 2008 - Contributo in volume (Capitolo o Saggio)
Isabella Chiarotto
Use of Electrochemistry and Palladium Catalysts for an Efficient Synthesis of Carbonyl Compounds.
In: RICHARD P. IRWIN. Organometallic Chemistry Research Perspectives.
N.Y:Nova Science Publishers, Inc., ISBN: 9781600217807 **2008**
43. 2006 - Articolo in rivista
I. Chiarotto, M. Feroci
Electrosynthesis of heteroaromatic aldehydes by palladium-catalyzed carbonylation of heteroaromatic iodides in the presence of formic acid.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, **2006**, vol. 691, 2589-2592, ISSN:0022-328X,
doi:10.1016/j.jorganchem.2006.01.054
44. 2003 - Articolo in rivista
I. Chiarotto, M. Feroci
Selective and Environmental Friendly Methodologies Based on the Use of Electrochemistry for Fine Chemicals Preparation: an Efficient Synthesis of N,N'-Disubstituted Ureas.
JOURNAL OF ORGANIC CHEMISTRY, **2003**, vol. 68, p. 7137-7139, ISSN: 0022-3263, doi: 10.1021/jo034750d
45. 2002 - Articolo in rivista
I. Chiarotto, I. Carelli
Palladium-catalyzed electrochemical carbonylation of alkynes, under very mild conditions.
SYNTHETIC COMMUNICATIONS, **2002**, vol. 32, p. 881-886, ISSN: 0039-7911
46. 2002 - Contributo in volume (Capitolo o Saggio)
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.
In: WORKENTIN M. S.; MARAN F.; CHIBA K.. Organic Electrochemistry. vol. 2002-10, p. 33-35, PENNINGTON, NJ:The Electrochemical Society, ISBN: 9781566773317, **2002**

47. 2001 - Articolo in rivista
I.Chiarotto, M. Feroci
Palladium-catalyzed electrochemical carbonylation of 2-amino-1-alkanols to oxazolidin-2-ones under very mild conditions.
TETRAHEDRON LETTERS, **2001**, vol. 42, p. 3451-3453, ISSN: 0040-4039, doi: 10.1016/S0040-4039(01)00497-X
48. 2000 - Articolo in rivista
I.Carelli, I. Chiarotto, C. Amatore, A. Jutand, G. Meyer
Reversible formation of a cationic palladium(II)hydride $\text{HPd}(\text{PPh}_3)_2^+$ in the oxidative addition of Palladium(0) to acetic or formic acid in DMF.
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, **2000**, vol. 8, p. 1855-1859, ISSN: 1434-1948, DOI: 10.1002/1099-0682(200008)2000:8
49. 1999 - Articolo in rivista
I. Carelli, I. Chiarotto, S. Cacchi, P. Pace, C. Amatore, A. Jutand, G. Meyer
Electrosynthesis of aromatic aldehydes via palladium-catalyzed carbonylation of aryl iodides in the presence of formic acid.
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, **1999**, vol. 6, p. 1471-1473, ISSN: 1434-193X DOI: 10.1002/1099-0690(199906)1999:6
50. 1997 - Articolo in rivista
C. Amatore, E. Carre', A. Jutand, H. Tanaka, S. Torii, I. Chiarotto, I. Carelli
Direct vs indirect route in the activation of aroyl palladium(II) complex by electron transfer.
ELECTROCHIMICA ACTA, **1997**, vol. 42(13-14), p. 2143-2152, ISSN: 0013-4686 doi:10.1016/S0013-4686(97)85491-6
51. 1996 - Articolo in rivista
I. Chiarotto, M. Feroci, C. Giomini, A. Inesi
Reactivity of alpha, alpha'-dichloroketones towards anions electrogenerated at carbonium and oxygen atoms.
Electrochemically-induced Favorskii rearrangement. Part 2.
BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE, **1996**, vol. 133, p. 167-175, ISSN: 0037-8968
52. 1996 - Articolo in rivista
I. Chiarotto, I. Carelli, V. Carnicelli, F. Marinelli, A. Arcadi
Electrochemical behaviour of $\text{Pd}(\text{PPh}_3)_2\text{Cl}_2$ in presence of carbon monoxide and its use in the palladium-catalysed electrochemical formylation of iodoanisole.
ELECTROCHIMICA ACTA, **1996**, vol. 41(16) p. 2503-2509, DOI: 10.1016/0013-4686(96)00011-4
53. 1996 - Articolo in rivista
I. Carelli, I. Chiarotto, A. Curulli, G. Palleschi
Electropolymerization of hydroxybenzene and aminobenzene isomers on platinum electrodes to assemble interference-free electrochemical biosensors.
ELECTROCHIMICA ACTA, **1996**, vol. 41(11-12), p. 1793-1800, ISSN: 0013-4686 doi:10.1016/0013-4686(95)00497-1
54. 1995 - Articolo in rivista
I. Carelli, I. Chiarotto, A. Curulli, G. Marrosu
Determination of cytochrome C, in solution and in the adsorbed state, by Differential Pulse Voltammetry (DPV).
ANALYTICAL LETTERS, **1995**, vol. 28(13), p. 2325-2345, ISSN: 0003-2719
55. 1995 - Articolo in rivista
I. Chiarotto, I. Carelli, S. Cacchi, P. Pace
Palladium-catalysed electrochemical reduction of vinyl and aryl triflates.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, **1995**, vol. 385, p. 235-239, ISSN: 1572-6657
56. 1994 - Articolo in rivista
I. Carelli, I. Chiarotto, A. Curulli
Electrochemical behaviour of 5-methylphenazonium methylsulphate in aprotic and aqueous medium and in the adsorbed state on the electrode surface.
CURRENT TOPICS IN ELECTROCHEMISTRY, **1994**, vol. 3, p. 141-157, ISSN: 0972-4443