

List of publications

- 164 G. Lissandrini, D. Zeppilli, F. Lorandi, K. Matyjaszewski, A. A. Isse, L. Orian, M. Fantin, “Photo-RAFT Polymerization Under Microwatt Irradiation via Unimolecular Photoinduced Electron Transfer” *Angew. Chem. Int. Ed.* **2025**, e202424225. doi.org/10.1002/anie.202424225.
- 163 A. Zampieri, F. Schnaubelt, K. Kim, G. Lissandrini, M. Fantin, K. Matyjaszewski, C. Durante, A. A. Isse “Polystyrene–Br End-Group Modification via Electrolysis: Adjusting Hydrogenation vs Coupling Selectivity” *ACS Macro Lett.* **2025**, *14*, 364–370. doi.org/10.1021/acsmacrolett.5c00053.
- 162 M. Fantin, A. Tognella, A. Antonello, F. Lorandi, E. Calore, A. Macior, C. Durante, A. A. Isse, “Effects of Solvent and Monomer on the Kinetics of Radical Generation in Atom Transfer Radical Polymerization” *ChemElectroChem* **2024**, *11*, e202300662. doi.org/10.1002/celec.202300662.
- 161 G. Gazzola, A. Antonello, A. A. Isse, M. Fantin, “Simple Iron Halides Enable Electrochemically Mediated ATRP in Nonpolar Media” *ACS Macro Lett.* **2023**, *12*, 1602–1607. doi.org/10.1021/acsmacrolett.3c00570.
- 160 M. Tosato, S. Franchi, A. A. Isse, A. Del Vecchio, G. Zanoni, A. Alker, M. Asti, T. Gyr, V. Di Marco, H. Mäcke, “Is Smaller Better? Cu²⁺/Cu⁺ Coordination Chemistry and Copper-64 Radiochemical Investigation of a 1,4,7-Triazacyclononane-Based Sulfur-Rich Chelator” *Inorg. Chem.* **2023**, *62*, 20621–20633. doi.org/10.1021/acs.inorgchem.3c00621.
- 159 M. Chávez, J. Luo, G. Sánchez-Obrero, M. Fantin, R. Madueño, A. A. Isse, J. M. Sevilla, M. Blázquez, T. Pineda, “Efficient formation of poly(ethylene glycol) polymer brushes on gold electrodes via surface-initiated electrochemically mediated ATRP (SI-eATRP)” *J. Electroanal. Chem.* **2023**, *947*, 117804. doi.org/10.1016/j.jelechem.2023.117804.
- 158 F. Lorandi, M. Fantin, H. Jafari, A. Gorczynski, G. Szczepaniak, S. Dadashi-Silab, A. A. Isse, K. Matyjaszewski, “Reactivity Prediction of Cu-Catalyzed Halogen Atom Transfer Reactions Using Data-Driven Techniques” *J. Am. Chem. Soc.* **2023**, *145*, 21587–21599. doi.org/10.1021/jacs.3c07711.
- 157 L. Franco, **A. A. Isse**, A. Barbon, L. Altomare, V. Hyppönen, J. Rosa, V. Olsson, M. Kettunen, L. Melone, “Redox Properties and in Vivo Magnetic Resonance Imaging of Cyclodextrin-Polynitroxides Contrast Agents” *ChemPysChem* **2023**, *24*, e2023001. doi.org/10.1002/cphc.202300100.
- 156 M. Fantin, **A. A. Isse**, “Improvement of electrode performance by grafting polymers via atom transfer radical polymerization (ATRP): Principles and applications”, *Curr. Opin. Electrochem.* **2023**, *40*, 101313. doi.org/10.1016/j.coelec.2023.101313.
- 155 M. Mazzucato, **A. A. Isse**, C. Durante, “Dissociative electron transfer mechanism and application in the electrocatalytic activation of organic halides”, *Curr. Opin. Electrochem.* **2023**, *39*, 101254. doi.org/10.1016/j.coelec.2023.101254.
- 154 M. Mazzucato, G. Daniel, V. Perazzolo, R. Brandiele, G. A. Rizzi, A. A. Isse, A. Gennaro, C. Durante, “Mesoporosity and nitrogen doping: The leading effect in oxygen reduction reaction activity and

- selectivity at nitrogen-doped carbons prepared by using polyethylene oxide-block-polystyrene as a sacrificial template” *Electrochem. Sci. Adv.* **2023**, *3*, e2100203. doi.org/10.1002/elsa.202100203.
- 153 S. Racioppi, L. Orian, C. Tubaro, A. Gennaro, **A. A. Isse**, “Solvent Coordination Effect on Copper-Based Molecular Catalysts for Controlled Radical Polymerization, *Catalysts* **2022**, *12*, 1656. doi.org/10.3390/catal12121656.
- 152 J. Luo, M. Chavez, C. Durante, A. Gennaro, **A. A. Isse**, Marco Fantin, “Improvement of electrochemically mediated atom transfer radical polymerization: Use of aluminum as a sacrificial anode in water” *Electrochim. Acta*, **2022**, *432*, 141183. doi.org/10.1016/j.electacta.2022.141183.
- 151 G. Gazzola, S. Pasinato, M. Fantin, N. Braidì, C. Tubaro, C. Durante, **A. A. Isse**, “Electrochemical Investigation of Iron-Catalyzed Atom Transfer Radical Polymerization” *Molecules*, **2022**, 6312. doi.org/10.3390/molecules27196312.
- 150 F. De Bon, R. G. Fonseca, F. Lorandi, A. C. Serra, **A. A. Isse**, K. Matyjaszewski, J. F.J. Coelho, The scale-up of electrochemically mediated atom transfer radical polymerization without deoxygenation, *Chem. Eng. J.* **2022**, *445*, 136690. doi.org/10.1016/j.cej.2022.136690.
- 149 A. Barbon, **A. A. Isse**, A. Gennaro, R. Carmieli, I. Bilkis, L. Weiner, “Water oxidation at low potential exploiting a nitroxide/oxoammonium ion redox couple as mediator”, *Mater. Adv.*, **2022**, *3*, 8149–8156. doi.org/10.1039/d2ma00668e.
- 148 M. Flejszar, K. Ślusarczyk, P. Chmielarz, K. Wolski, **A. A. Isse**, A. Gennaro, M. Wyrwal-Sarna, M. Oszajc, “Working electrode geometry effect: A new concept for fabrication of patterned polymer brushes via SI-seATRP at ambient conditions” *Polymer* **2022**, *255*, 125098. doi.org/10.1016/j.polymer.2022.125098.
- 147 F. De Bon, F. Lorandi, J. F. J. Coelho, A.C.Serra, K. Matyjaszewski, **A. A. Isse**, Dual electrochemical and chemical control in atom transfer radical polymerization with copper electrodes, *Chem. Sci.* **2022**, DOI: 10.1039/d2sc01982e.
- 146 M. Tosato, M. Pelosato, S. Franchi, **A. A. Isse**, N. V. May, G. Zanoni, F. Mancin, P. Pastore, D. Badocco, M. Asti, V. Di Marco, When ring makes the difference: coordination properties of Cu²⁺/Cu⁺ complexes with sulfur-pendant polyazamacrocycles for radiopharmaceutical applications, *New J. Chem.* **2022**, DOI: 10.1039/d2nj01032a.
- 145 Y. Zhang, G. Daniel, S. Lanzalaco, **A.A. Isse**, A. Facchin, A. Wang, E. Brillas, C. Durante, S. Ignasi, “H₂O₂ production at gas-diffusion cathodes made from agarose-derived carbons with different textural properties for acebutolol degradation in chloride media” *J. Hazard. Mater.* **2022**, *423*, 127005. 10.1016/j.jhazmat.2021.127005.
- 144 S. Grecchi, S. Arnaboldi, **A.A. Isse**, C. D’Aloi, A. Gennaro, P.R. Mussini, “Electrocatalytic Reduction of Bromothiophenes vs Bromobenzenes on Gold and Silver Electrodes: Enhancement from S specific adsorption and modulation from substituent effects” *Electrochim. Acta* **2022**, *403*, 139563. doi.org/10.1016/j.electacta.2021.139563.
- 143 **A.A. Isse**, A. Gennaro, “Electrochemistry for Atom Transfer Radical Polymerization” *Chem. Rec.* **2021**, *21*, 2203-2222. doi:10.1002/tcr.202100028.

- 142 J. Luo, C. Durante, A. Gennaro, A.A. Isse, “Electrochemical study of the effect of Al³⁺ on the stability and performance of Cu-based ATRP catalysts in organic media” *Electrochim. Acta* **2021**, *388*, 138589. doi: 10.1016/j.electacta.2021.138589.
- 141 M. Borsari, N. Braidì, M. Buffagni, F. Ghelfi, F. Parenti, N. Porcelli, G. Serafini, **A.A. Isse**, L. Bonifaci, G. Cavalca, A. Longo, I. Morandini, N. Pettenuzzo, “Copper-catalyzed ARGET ATRP of styrene from ethyl α -haloisobutyrate in EtOAc/EtOH, using ascorbic acid/Na₂CO₃ as reducing system” *Eur. Polym. J.* **2021**, *157*, 110675. doi.org/10.1016/j.eurpolymj.2021.110675.
- 140 M. Tosato, M. Dalla Tiezza, N. V. May, **A.A. Isse**, S. Nardella, L. Orian, M. Verona, C. Vaccarin, A. Alker, H. Mäcke, P. Pastore, V. Di Marco, “Copper Coordination Chemistry of Sulfur Pendant Cyclen Derivatives: An Attempt to Hinder the Reductive-Induced Demetalation in 64/67Cu Radiopharmaceuticals” *Inorg. Chem.* **2021**, *60*, 11530–11547. doi.org/10.1021/acs.inorgchem.1c01550.
- 139 F. De Bon, G.M. Carlan, E. Tognella, **A.A. Isse**, “Exploring electrochemically mediated ATRP of styrene” *Processes* **2021**, *9*, 1327. doi: 10.3390/pr9081327.
- 138 P. Pavan, F. Lorandi, F. De Bon, A. Gennaro, **A.A. Isse**, “Enhancement of the Rate of Atom Transfer Radical Polymerization in Organic Solvents by Addition of Water: An Electrochemical Study” *ChemElectroChem* **2021**, *8*, 2450-2458. doi: 10.1002/celec.202100430.
- 137 F. De Bon, C.M.R. Abreu, A.C., Serra, A. Gennaro, J.F.J. Coelho, **A.A. Isse**, “Catalytic Halogen Exchange in Supplementary Activator and Reducing Agent Atom Transfer Radical Polymerization for the Synthesis of Block Copolymers” *Macromol. Rapid. Commun.* **2021**, *42*, 200532. doi: 10.1002/marc.202000532.
- 136 V. Perazzolo, G. Daniel, R. Brandiele, L. Picelli, G.A. Rizzi, **A.A. Isse**, C. Durante, “PEO-b-PS block copolymer templated mesoporous carbons: a comparative study of nitrogen and sulfur doping in the oxygen reduction reaction to hydrogen peroxide” *Chem. Eur. J.* **2021**, *27*, 1002-1014 doi.org/10.1002/chem.202003355.
- 135 N. Braidì, M. Buffagni, F. Ghelfi, F. Parenti, A. Gennaro, **A.A. Isse**, E. Bedogni, L. Bonifaci, G. Cavalca, A. Ferrando, A. Longo, I. Morandini, “ARGET ATRP of styrene in EtOAc/EtOH using only Na₂CO₃ to promote the copper catalyst regeneration” *J. Macromol. Sci. Part A: Pure Appl. Chem.* **2021**, *58*, 376-386. doi.org/10.1080/10601325.2020.1866434.
- 134 F. De Bon, D.C. M. Ribeiro, C.M. R. Abreu, R.A. C. Rebelo, **A.A. Isse**, A. C. Serra, A. Gennaro, K. Matyjaszewski, J. F. J. Coelho, “Under pressure: electrochemically-mediated atom transfer radical polymerization of vinyl chloride” *Polym. Chem.* **2020**, *11*, 6745-6762. doi: 10.1039/d0py00995d.
- 133 N. Braidì, M. Buffagni, F. Ghelfi, M. Imperato, A. Menabue, F. Parenti, A. Gennaro, **A.A. Isse**, E. Bedogni, L. Bonifaci, G. Cavalca, A. Ferrando, A. Longo, I. Morandini, “Copper-Catalyzed “Activators Regenerated by Electron Transfer” “Atom Transfer Radical Polymerization” of Styrene from a Bifunctional Initiator in Ethyl Acetate/Ethanol, Using Ascorbic Acid/Sodium Carbonate as Reducing System” *Macromol. Res.* **2020**, *28*, 751-761. doi: 10.1007/s13233-020-8091-3.
- 132 F. Lorandi, M. Fantin, Y. Wang, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, “Atom transfer radical polymerization of acrylic and methacrylic acids. Preparation of acidic polymers with various architectures” *ACS Macro Lett.* **2020**, *9*, 693-699. doi: 10.1021/acsmacrolett.0c00246.

- 131 F. De Bon, S. Marenzi, A.A. Isse, C. Durante, A. Gennaro, "Electrochemically mediated aqueous atom transfer radical polymerization of *N,N*-dimethylacrylamide" *ChemElectroChem* **2020**, *7*, 1378-1388. doi: 10.1002/celec.202000131.
- 130 A. Michieletto, F. Lorandi, F. De Bon, **A.A. Isse**, A. Gennaro, "Biocompatible polymers via aqueous electrochemically mediated atom transfer radical polymerization", *J. Polym. Sci.* **2020**, *58*, 114-123. doi: 10.1002/pol.20190323.
- 129 R. Brandiele, V. Amendola, A. Guadagnini, G.A. Rizzi, D. Badocco, P. Pastore, **A.A. Isse**, C. Durante, A. Gennaro, "Facile synthesis of Pd₃Y alloy nanoparticles for electrocatalysis of the oxygen reduction reaction", *Electrochim. Acta* **2019**, *320*, 134563. doi: 10.1016/j.electacta.2019.134563.
- 128 R. Brandiele, M. Zerbetto, M.C. Dalconi, G.A. Rizzi, **A.A. Isse**, C. Durante, A. Gennaro, "Mesoporous carbon with different density of thiophenic-like functional groups and their effect on oxygen reduction", *ChemSusChem* **2019**, *12*, 4229-4239. doi: 10.1002/cssc.201901568.
- 127 F. De Bon, **A.A. Isse**, A. Gennaro, "Electrochemically mediated atom transfer radical polymerization of methyl methacrylate: The importance of catalytic halogen exchange", *ChemElectroChem* **2019**, *6*, 4257-4265. doi: 10.1002/celec.201900192.
- 126 I. Zaborniak, P. Chmielarz, K. Wolski, G. Grześ, **A.A. Isse**, A. Gennaro, S. Zapotoczny, A. Sobkowiak, "Tannic acid-inspired star-like macromolecules via temporally controlled multi-step potential electrolysis", *Macromol. Chem. Phys.* **2019**, 1900073. doi: 10.1002/macp.201900073.
- 125 M. Fantin, F. Lorandi, T.G. Ribelli, G. Szczepaniak, A.E. Enciso, C. Fliedel, L. Thevenin, **A.A. Isse**, R. Poli, K. Matyjaszewski "Impact of organometallic intermediates on copper-catalyzed atom transfer radical polymerization", *Macromolecules* **2019**, *52*, 4079-4090. doi: 10.1021/acs.macromol.9b00870.
- 124 **A.A. Isse**, F. Lorandi, A. Gennaro, "Electrochemical approaches for better understanding of atom transfer radical polymerization", *Curr. Opin. Electrochem.* **2019**, *15*, 50-57. doi: 10.1016/j.coelec.2019.04.001.
- 123 F. De Bon, **A.A. Isse**, A. Gennaro, "Towards scale-up of electrochemically-mediated atom transfer radical polymerization: Use of a stainless-steel reactor as both cathode and reaction vessel", *Electrochim. Acta*, **2019**, *304*, 505-512. doi: 10.1016/j.electacta.2019.03.032.
- 122 F. Lorandi, M. Fantin, S. Shanmugam, Y. Wang, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, "Toward Electrochemically mediated reversible addition-fragmentation chain-transfer (*e*RAFT) polymerization: Can propagating radicals be efficiently electrogenerated from RAFT agents?", *Macromolecules* **2019**, *52*, 1479-1488. doi: 10.1021/acs.macromol.9b00112.
- 121 J.R.C. Costa, J.R. Góis, F. De Bon, A.C. Serra, T. Gulashvili, **A.A. Isse**, A. Gennaro, J.F.J. Coelho, "Addressing the role of triphenylphosphine in copper catalyzed ATRP" *Polym. Chem.* **2018**, *9*, 5348-5358. doi: 10.1039/c8py01245h.
- 120 G. Daniel, E. Foltran, R. Brandiele, L. Nodari, R. Pilot, E. Menna, G.A. Rizzi, **A.A. Isse**, C. Durante, A. Gennaro, "Platinum-free electrocatalysts for oxygen reduction reaction: Fe-N_x modified mesoporous carbon prepared from biosources" *J. Power Sources* **2018**, *402*, 434-446. doi:10.1016/j.jpowsour.2018.09.060.

- 119 E. Trevisanello, F. De Bon, G. Daniel, F. Lorandi, C. Durante, **A.A. Isse**, A. Gennaro, “Electrochemically mediated atom transfer radical polymerization of acrylonitrile and poly(acrylonitrile-*b*-butyl acrylate) copolymer as a precursor for N-doped mesoporous carbons”, *Electrochim. Acta* **2018**, 285, 344-354. doi: 10.1016/j.electacta.2018.07.209.
- 118 R. Brandiele, C. Durante, M. Zerbetto, N. Vicentini, T. Kosmala, D. Badocco, P. Pastore, G.A. Rizzi, **A.A. Isse**, A. Gennaro, “Probing the correlation between Pt-support interaction and oxygen reduction reaction activity in mesoporous carbon materials modified with Pt-N active sites”, *Electrochim. Acta* **2018**, 277, 287-300. doi: 10.1016/j.electacta.2018.04.182.
- 117 S. Rizzo, S. Arnaboldi, R. Cirilli, A. Gennaro, **A.A. Isse**, F. Sannicolò, P. R. Mussini, “An “inherently chiral” 1,1'-bibenzimidazolium additive for enantioselective voltammetry in ionic liquid media”, *Electrochem. Commun.* **2018**, 89, 57-61. doi: 10.1016/j.elecom.2018.02.016.
- 116 F. Lorandi, M. Fantin, **A.A. Isse**, A. Gennaro, “Electrochemical triggering and control of atom transfer radical polymerization”, *Curr. Opin. Electrochem.* **2018**, 8, 1-7. doi: 10.1016/j.coelec.2017.11.004.
- 115 F. De Bon, M. Fantin, **A.A. Isse**, A. Gennaro, “Electrochemically mediated ATRP in ionic liquids: Controlled polymerization of methyl acrylate in [BMIm][OTf]”, *Polym. Chem.* **2018**, 9, 646-655. doi:10.1039/c7py02134h.
- 114 F. Lorandi, M. Fantin, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, “New protocol to determine the equilibrium constant of atom transfer radical polymerization” *Electrochim. Acta* **2018**, 260, 648-655. doi: 10.1016/j.electacta.2017.12.011.
- 113 F. Lorandi, M. Fantin, F. De Bon, **A.A. Isse**, A. Gennaro, “Electrochemical procedures to determine thermodynamic and kinetic parameters of atom transfer radical polymerization”, *ACS Symposium Series* **2018**, 1284, 161-189. doi:10.1021/bk-2018-1284.ch007.
- 112 Y. Wang, F. Lorandi, M. Fantin, P. Chmielarz, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, “Miniemulsion ARGET ATRP via interfacial and ion-pair catalysis: From ppm to ppb of residual copper”, *Macromolecules* **2017**, 50, 8417–8425. doi: 10.1021/acs.macromol.7b01730.
- 111 **A.A. Isse**, S. Arnaboldi, C. Durante, A. Gennaro, “Electrochemical reduction of organic bromides in 1-butyl-3-methylimidazolium tetrafluoroborate”, *J. Electroanal. Chem.*, **2017**, 804, 240-247. doi: 10.1016/j.jelechem.2017.09.023.
- 110 N.A.C. dos Santos, F. Lorandi, E. Badetti, K. Wurst, **A.A. Isse**, A. Gennaro, G. Licini, C. Zonta, “Tuning the reactivity and efficiency of copper catalysts for atom transfer radical polymerization by synthetic modification of tris(2-methylpyridyl)amine”, *Polymer*, **2017**, 128, 169-176.
- 109 R. Brandiele, L. Picelli, R. Pilot, V. Causin, A. Martucci, G.A. Rizzi, **A.A. Isse**, C. Durante, A. Gennaro, “Nitrogen and sulfur doped mesoporous carbons, prepared from templating silica, as interesting material for supercapacitors”, *ChemistrySelect*, **2017**, 2, 7082-7090.
- 108 M. Fantin, F. Lorandi, A. Gennaro, **A.A. Isse**, K. Matyjaszewski, “Electron transfer reactions in atom transfer radical polymerization”, *Synthesis* **2017**, 49, 3311–3322. DOI: 10.1055/s-0036-1588873.
107. P. Chmielarz, M. Fantin, S. Park, **A.A. Isse**, A. Gennaro, A. J. D. Magenau, A. Sobkowiak, K. Matyjaszewski, “Electrochemically mediated atom transfer radical polymerization (*e*ATRP)”, *Prog. Polym. Sci.*, **2017**, 69, 47-78. doi: org/10.1016/j.progpolymsci.2017.02.005.

106. M. Fantin, P. Chmielarz, Y. Wang, F. Lorandi, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, "Harnessing the interaction between surfactant and hydrophilic catalyst to control *e*ATRP in miniemulsion", *Macromolecules*, **2017**, *50*, 3726–3732. doi: 10.1021/acs.macromol.7b00530.
105. M. Fantin, **A.A. Isse**, K. Matyjaszewski, A. Gennaro, "ATRP in water: kinetic analysis of active and super-active catalysts for enhanced polymerization control", *Macromolecules*, **2017**, *50*, 2696-2705. doi: 10.1021/acs.macromol.7b00246.
104. F. Lorandi, F. De Bon, M. Fantin, **A.A. Isse**, A. Gennaro, "Electrochemical characterization of common catalysts and initiators for atom transfer radical polymerization in [BMIm][OTf]", *Electrochem. Commun.*, **2017**, *77*, 116-119. doi: 10.1016/j.elecom.2017.03.003.
103. S. Rizzo, S. Arnaboldi, V. Mihali, R. Cirilli, A. Forni, A. Gennaro, **A.A. Isse**, M. Pierini, P.R. Mussini, F. Sannicolò, "'Inherently chiral" ionic liquid media: effective chiral electroanalysis on achiral electrodes", *Angew. Chem. Int. Ed.*, **2017**, *56*, 2079-2082, doi: 10.1002/anie.201607344.
102. F. Endrizzi, P. Di Bernardo, P.L. Zanonato, F. Tisato, M. Porchia, **A.A. Isse**, A. Melchior, M. Tolazzi, "Cu(I) and Ag(I) complexes with the hydrophilic phosphine 1, 3, 5-triaza-7-phosphadamantane", *Dalton Trans.* **2017**, *46*, 1455-1466, doi: 10.1039/C6DT04221J.
101. S. Lanzalaco, M. Fantin, O. Scialdone, A. Galia, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, "Atom transfer radical polymerization with different halides (F, Cl, Br, and I): Is the process "living" in the presence of fluorinated initiators?", *Macromolecules*, **2017**, *50*, 192-202. doi: 10.1021/acs.macromol.6b02286.
100. M. Fantin, **A.A. Isse**, N. Bortolamei, K. Matyjaszewski, A. Gennaro, "Electrochemical approaches to the determination of rate constants for the activation step in atom transfer radical polymerization", *Electrochim. Acta*, **2016**, *222*, 393-401. doi.org/10.1016/j.electacta.2016.10.191
99. A. Barbon, M. Bortolus, **A.A. Isse**, V.A. Reznikov, L. Weiner, "Electron transfer in pH-sensitive nitroxide radicals", *Chem. Phys. Lett.* **2016**, *665*, 137-140. doi.org/10.1016/j.cplett.2016.10.067
98. F. Lorandi, M. Fantin, **A.A. Isse**, A. Gennaro, "Electrochemically mediated atom transfer radical polymerization of n-butyl acrylate on non-platinum cathodes", *Polym. Chem.* **2016**, *7*, 5357-5365. doi: 10.1039/c6py01032f.
97. M. Fantin, F. Lorandi, **A.A. Isse**, A. Gennaro, "Sustainable electrochemically-mediated atom transfer radical polymerization with inexpensive non-platinum electrodes", *Macromol. Rapid Commun.* **2016**, *37*, 1318-1322. doi: 10.1002/marc.201600237.
96. M. Baron, C. Tubaro, M. Basato, **A.A. Isse**, A. Gennaro, L. Cavallo, C. Graiff, A. Dolmella, L. Falivene, L. Caporaso, "Insights into the halogen oxidative addition reaction to dinuclear gold(I) di(NHC) complexes", *Chem. Eur. J.* **2016**, *22*, 10211-10224. doi: 10.1002/chem.201600654.
95. M. Fantin, **A.A. Isse**, A. Venzo, A. Gennaro, K. Matyjaszewski, "Atom transfer radical polymerization of methacrylic acid: A won challenge", *J. Am. Chem. Soc.* **2016**, *138*, 7216-7219. doi: 10.1021/jacs.6b01935.
94. A.J. Clark, J.N. Duckmanton, F. Felluga, A. Gennaro, F. Ghelfi, J.R.D. Hardiman, **A.A. Isse**, C. Manferdini, D. Spinelli, "Cu⁰-promoted cyclisation of unsaturated α -halogeno amides to give β - and γ -lactams", *Eur. J. Org. Chem.* **2016**, *14*, 2479-2491. doi: 10.1002/ejoc.201600249.

93. X. Pan, C. Fang, M. Fantin, N. Malhotra, W.Y. So, L.A. Peteanu, **A.A. Isse**, A. Gennaro, P. Liu, K. Matyjaszewski, “Mechanism of photoinduced metal-free atom transfer radical polymerization: experimental and computational studies”, *J. Am. Chem. Soc.* **2016**, *138*, 2411-2425. doi: 10.1021/jacs.5b13455.
92. A. Privitera, M. Righetto, D. Mosconi, F. Lorandi, **A.A. Isse**, A. Moretto, R. Bozio, C. Ferrante, L. Franco, “Boosting carbon quantum dots/fullerene electron transfer via surface group engineering”, *Phys. Chem. Chem. Phys.* **2016**, doi: 10.1039/C6CP05981C.
91. A. Gennaro, **A.A. Isse**, P.R. Mussini, “Activation of the carbon-halogen bond”, in *Organic Electrochemistry, 5th Ed.: Revised and Expanded*, O. Hammerich, B. Speiser, (eds.), Taylor & Francis Group, LLC, Boca Raton, **2016**, 917-940.
90. S. Arnaboldi, R. Cirilli, A. Forni, A. Gennaro, **A.A. Isse**, V. Mihali, P.R. Mussini, M. Pierini, S. Rizzo, F. Sannicolò, “Electrochemistry and chirality in bibenzimidazole systems”, *Electrochim. Acta* **2015**, *179*, 250-262. doi: 10.1016/j.electacta.2015.03.177.
89. M. Fantin, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, “Understanding the fundamentals of aqueous ATRP and defining conditions for better control”, *Macromolecules* **2015**, *48*, 6862-6875. doi: 10.1021/acs.macromol.5b01454.
88. F. Lorandi, M. Fantin, **A.A. Isse**, A. Gennaro, “RDRP in the presence of Cu⁰: The fate of Cu(I) proves the inconsistency of SET-LRP mechanism”, *Polymer* **2015**, *72*, 238-245. doi: 10.1016/j.polymer.2015.04.007.
87. M. Redaelli, C. Mucignat-Caretta, **A.A. Isse**, A. Gennaro, R. Pezzani, R. Pasquale, V. Pavan, M. Crisma, G. Ribaudò, G. Zagotto, “New naphthoquinone derivatives against glioma cells”, *Eur. J. Med. Chem.* **2015**, *96*, 458-466. doi: 10.1016/j.ejmech.2015.04.039.
86. S. Arnaboldi, A. Gennaro, **A.A. Isse**, P.R. Mussini, “The solvent effect on the electrocatalytic cleavage of carbon-halogen bonds on Ag and Au”, *Electrochim. Acta* **2015**, *158*, 427-436. doi: 10.1016/j.electacta.2015.01.169.
85. **A.A. Isse**, G. Visonà, F. Ghelfi, F. Roncaglia, “Electrochemical approach to copper-catalyzed reversed atom transfer radical cyclization”, *Adv. Synth. Catal.* **2015**, *357*, 782-792. doi: 10.1002/adsc.201400587.
84. **A.A. Isse**, L. Scarpa, C. Durante, A. Gennaro, “Reductive cleavage of carbon–chlorine bonds at catalytic and non-catalytic electrodes in 1-butyl-3-methylimidazolium tetrafluoroborate”, *Phys. Chem. Chem. Phys.* **2015**, *17*, 31228-31236. doi: 10.1039/c5cp04142b.
83. S. Arnaboldi, M. Magni, P.R. Mussini, A. Gennaro, **A.A. Isse**, ““Egg of Columbus”: Single-step complete removal of chloride impurities from ionic liquids by AgCl deposition on silver electrode”, *Electrochem. Commun.* **2015**, *51*, 46-49. doi: 10.1016/j.elecom.2014.11.022.
82. A.J. Clark, A. Cornia, F. Felluga, A. Gennaro, F. Ghelfi, **A.A. Isse**, M.C. Menziani, F. Muniz-Miranda, F. Roncaglia, D. Spinelli, “Arylsulfonyl Groups: The best cyclization auxiliaries for the preparation of ATRC γ -lactams can be acidolytically removed”, *Eur. J. Org. Chem.*, **2014**, 6734-6745. doi: 10.1002/ejoc.201402769.

81. C. Durante, V. Perazzolo, **A.A. Isse**, M. Favaro, G. Granozzi, A. Gennaro, "Electrochemical activation of carbon-halogen bonds: Electrocatalysis at palladium/copper nanoparticles", *ChemElectroChem*, **2014**, *1*, 1370-1381. doi: 10.1002/celec.201402032.
80. D. Konkolewicz, Y. Wang, P. Krys, M. Zhong, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, "SARA ATRP or SET-LRP. End of controversy?", *Polym. Chem.*, **2014**, *5*, 4396-4417. doi: 10.1039/c4py00149d.
79. A. Vascon, S. Santi, **A.A. Isse**, T. Reich, J. Drebert, H. Christ, K. Eberhardt, C.E. Düllmann, "Fundamental aspects of molecular plating and production of smooth crack-free Nd targets" *J. Radioanal. Nucl. Chem.*, **2014**, *299*, 1085-1091. doi: 10.1007/s10967-013-2631-7.
78. D. Konkolewicz, P. Krys, J.R. Góis, P.V. Mendonça, M. Zhong, Y. Wang, A. Gennaro, **A.A. Isse**, M. Fantin, K. Matyjaszewski, "Aqueous RDRP in the presence of Cu⁰: The exceptional activity of Cu^I confirms the SARA ATRP mechanism", *Macromolecules*, **2014**, *47*, 560-570. doi: 10.1021/ma4022983.
77. S. Arnaboldi, A. Bonetti, E. Giussani, P.R. Mussini, T. Benincori, S. Rizzo, **A.A. Isse**, A. Gennaro, "Electrocatalytic reduction of bromothiophenes on gold and silver electrodes: An example of synergy in electrocatalysis", *Electrochem. Commun.* **2014**, *38*, 100-103. doi: 10.1016/j.elecom.2013.10.025.
76. K. Matyjaszewski, N. Bortolamei, A. Magenau, A. Gennaro, **A.A. Isse**, "Electrochemically mediated atom transfer radical polymerization" *US Patent*, **2014**, US20140183055.
75. D. Konkolewicz, Y. Wang, M. Zhong, P. Krys, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, "Reversible-deactivation radical polymerization in the presence of metallic copper. A critical assessment of the SARA ATRP and SET-LRP mechanisms" *Macromolecules*, **2013**, *46*, 8749-8772. doi: 10.1021/ma401243k.
74. C. Tubaro, M. Baron, M. Costante, M. Basato, A. Biffis, A. Gennaro, **A.A. Isse**, C. Graiff, G. Accorsi, "Dinuclear gold(I) complexes with propylene bridged *N*-heterocyclic dicarbene ligands: Synthesis, structures, and trends in reactivities and properties" *Dalton Trans.*, **2013**, *42*, 10952-10963. doi: 10.1039/c3dt51260f.
73. **A.A. Isse**, N. Bortolamei, P. De Paoli, A. Gennaro, "On the mechanism of activation of copper-catalyzed atom transfer radical polymerization" *Electrochim. Acta*, **2013**, *110*, 655-662. doi: 10.1016/j.electacta.2013.04.132.
72. Y. Wang, M. Zhong, W. Zhu, C.-H. Peng, Y. Zhang, D. Konkolewicz, N. Bortolamei, **A.A. Isse**, A. Gennaro, K. Matyjaszewski, "Reversible-deactivation radical polymerization in the presence of metallic copper. Comproportionation–disproportionation equilibria and kinetics", *Macromolecules*, **2013**, *46*, 3793-3802. doi: 10.1021/ma400149t.
71. F. Bellesia, A.J. Clark, F. Felluga, A. Gennaro, **A.A. Isse**, F. Roncaglia, F. Ghelfi, "Efficient and green route to γ -lactams by copper-catalyzed reversed atom transfer radical cyclisation of α -polychloro-*N*-allylamides, using a low load of metal (0.5 mol%)" *Adv. Synth. Catal.*, **2013**, *355*, 1649-1660. doi: 10.1002/adsc.201300132.
70. C. Durante, **A.A. Isse**, F. Todesco, A. Gennaro, "Electrocatalytic activation of aromatic carbon-bromine bonds toward carboxylation at silver and copper cathodes" *J. Electrochem. Soc.*, **2013**, *160*, G3073-G3079. doi: 10.1149/2.008307jes.
69. A. Vascon, S. Santi, **A.A. Isse**, A. Kühnle, T. Reich, J. Drebert, K. Eberhardt, C. E. Düllmann, "Smooth crack-free targets for nuclear applications produced by molecular plating" *Nucl. Instrum. Meth. A*, **2013**, *714*, 163-175. doi: 10.1016/j.nima.2013.03.003.

68. C. Durante, **A.A. Isse**, A. Gennaro, “Electrocatalytic dechlorination of polychloroethylenes at silver cathode” *J. Appl. Electrochem.*, **2013**, *43*, 227-235. doi: 10.1007/s10800-012-0483-4.
67. A. Gennaro, **A.A. Isse**, E. Giussani, P.R. Mussini, I. Primerano, M. Rossi, “Relationship between supporting electrolyte bulkiness and dissociative electron transfer at catalytic and non-catalytic electrodes” *Electrochim. Acta*, **2013**, *89*, 52–62. doi: 10.1016/j.electacta.2012.11.013.
66. B. Huang, C. Durante, **A.A. Isse**, A. Gennaro, “Highly selective electrochemical hydrogenation of acetylene to ethylene at Ag and Cu cathodes” *Electrochem. Commun.*, **2013**, *34*, 90-93. doi: 10.1016/j.elecom.2013.05.036.
65. A. Vascon, S. Santi, **A.A. Isse**, T. Reich, J. Drebert, H. Christ, C.E. Düllmann, K. Eberhardt, “Elucidation of constant current density molecular plating” *Nucl. Instrum. Meth. A*, **2012**, *696*, 180-191. doi: 10.1016/j.nima.2012.08.072.
64. C. Durante, B. Huang, **A.A. Isse**, A. Gennaro, “Electrocatalytic dechlorination of volatile organic compounds at a copper electrode. Part II: Polychloroethanes” *Appl. Catal. B: Environ.*, **2012**, *126*, 355-362. doi: 10.1016/j.apcatb.2012.07.003.
63. **A.A. Isse**, B. Huang, C. Durante, A. Gennaro, “Electrocatalytic dechlorination of volatile organic compounds at a copper electrode. Part I: Polychloromethanes” *Appl. Catal. B: Environ.*, **2012**, *126*, 347-354. doi: 10.1016/j.apcatb.2012.07.004.
62. B. Huang, **A.A. Isse**, C. Durante, C. Wei, A. Gennaro, “Electrocatalytic properties of transition metals toward reductive dechlorination of polychloroethanes” *Electrochim. Acta*, **2012**, *70*, 50–61. doi: 10.1016/j.electacta.2012.03.009.
61. N. Bortolamei, **A.A. Isse**, A.J.D. Magenau, A. Gennaro, K. Matyjaszewski, “Controlled aqueous atom transfer radical polymerization with electrochemical generation of the active catalyst” *Angew. Chem. Int. Ed.*, **2011**, *50*, 11391–11394. doi: 10.1002/anie.201105317.
60. **A.A. Isse**, C. Durante, A. Gennaro, “One-pot synthesis of benzoic acid by electrocatalytic reduction of bromobenzene in the presence of CO₂” *Electrochem. Commun.* **2011**, *13*, 810–813. doi: 10.1016/j.elecom.2011.05.009.
59. **A.A. Isse**, A. Gennaro, C.Y. Lin, J.L. Hodgson, M.L. Coote, T. Guliashvili, “Mechanism of carbon-halogen bond reductive cleavage in activated alkyl halide initiators relevant to living radical polymerization: Theoretical and experimental study” *J. Am. Chem. Soc.*, **2011**, *133*, 6254–6264. doi: 10.1021/ja110538b.
58. P. De Paoli, **A.A. Isse**, N. Bortolamei, A. Gennaro, “New insights into the mechanism of activation of atom transfer radical polymerization by Cu(I) complexes” *Chem. Commun.*, **2011**, *47*, 3580–3582. doi: 10.1039/c1cc10195a.
57. **A.A. Isse**, C.Y. Lin, M.L. Coote, A. Gennaro, “Estimation of standard reduction potentials of halogen atoms and alkyl halides” *J. Phys. Chem. B*, **2011**, *678–684*. doi: 10.1021/jp109613t.
56. C. Durante, M. Cuscov, **A.A. Isse**, G. Sandonà, A. Gennaro, “Advanced oxidation processes coupled with electrocoagulation for the exhaustive abatement of Cr-EDTA” *Water Res.*, **2011**, *45*, 2122–2130. doi: 10.1016/j.watres.2010.12.022.

55. N. Bortolamei, **A.A. Isse**, A. Gennaro, “Estimation of standard reduction potentials of alkyl radicals involved in atom transfer radical polymerization” *Electrochim. Acta*, **2010**, *55*, 8312–8318. doi: 10.1016/j.electacta.2010.02.099.
54. N. Bortolamei, **A.A. Isse**, V.B. Di Marco, A. Gennaro, K. Matyjaszewski, “Thermodynamic properties of copper complexes used as catalysts in atom transfer radical polymerization” *Macromolecules*, **2010**, *43*, 9257–9267. doi: 10.1021/ma101979p.
53. G. Buscemi, M. Basato, A. Biffis, A. Gennaro, **A.A. Isse**, M.M. Natile, C. Tubaro, “Electronic properties of chelating dicarbene palladium complexes: A combined electrochemical, NMR and XPS investigation” *J. Organomet. Chem.*, **2010**, *695*, 2359–2365. doi: 10.1016/j.jorganchem.2010.06.019.
52. **A.A. Isse**, A. Gennaro, “Absolute potential of the standard hydrogen electrode and the problem of interconversion of potentials in different solvents” *J. Phys. Chem. B*, **2010**, *114*, 7894–7899. doi: 10.1021/jp100402x.
51. C. Durante, **A.A. Isse**, G. Sandonà, A. Gennaro, “Exhaustive depletion of recalcitrant chromium fractions in a real wastewater” *Chemosphere*, **2010**, *78*, 620–625. doi: 10.1016/j.chemosphere.2009.10.046.
50. **A.A. Isse**, G. Berzi, L. Falciola, M. Rossi, P.R. Mussini, A. Gennaro, “Electrocatalysis and electron transfer mechanisms in the reduction of organic halides at Ag” *J. Appl. Electrochem.*, **2009**, *39*, 2217–2225. doi: 10.1007/s10800-008-9768-z.
49. A. Gennaro, **A.A. Isse**, C.L. Bianchi, P.R. Mussini, M. Rossi, “Is glassy carbon a really inert electrode material for the reduction of carbon-halogen bonds?” *Electrochem. Commun.*, **2009**, *11*, 1932–1935. doi: 10.1016/j.elecom.2009.08.021.
48. **A.A. Isse**, P.R. Mussini, A. Gennaro, “New insights into electrocatalysis and dissociative electron transfer mechanisms: The case of aromatic bromides” *J. Phys. Chem. C*, **2009**, *113*, 14983–14992. doi: 10.1021/jp904797m.
47. C. Durante, **A.A. Isse**, G. Sandonà, A. Gennaro, “Electrochemical hydrodehalogenation of polychloromethanes at silver and carbon electrodes” *Appl. Catal. B-Environ.*, **2009**, *88*, 479–489. doi: 10.1016/j.apcatb.2008.10.010.
46. **A.A. Isse**, G. Sandonà, C. Durante, A. Gennaro, “Voltammetric investigation of the dissociative electron transfer to polychloromethanes at catalytic and non-catalytic electrodes” *Electrochim. Acta*, **2009**, *54*, 3235–3243. doi: 10.1016/j.electacta.2008.12.034.
45. O. Scialdone, A. Galia, G. Filardo, **A.A. Isse**, A. Gennaro, “Electrocatalytic carboxylation of chloroacetonitrile at a silver cathode for the synthesis of cyanoacetic acid” *Electrochim. Acta*, **2008**, *54*, 634–642. doi: 10.1016/j.electacta.2008.07.012.
44. **A.A. Isse**, S. Gottardello, C. Durante, A. Gennaro, “Dissociative electron transfer to organic chlorides: Electrocatalysis at metal cathodes” *Phys. Chem. Chem. Phys.*, **2008**, *10*, 2409–2416. doi: 10.1039/b719936h.
43. S. Altomonte, L. Falciola, P.R. Mussini, S. Trasatti, A. Gennaro, **A.A. Isse**, “Real surface area of catalytic silver electrodes: the subjective molecular probe perspective” *Russ. J. Electrochem.*, **2008**, *44*, 104–112. doi: 10.1134/S1023193508010151.

42. O. Scialdone, A. Galia, G. Errante, **A.A. Isse**, A. Gennaro, G. Filardo, “Electrocarboxylation of benzyl chlorides at silver cathode at the preparative scale level” *Electrochim. Acta*, **2008**, *53*, 2514–2528. doi: 10.1016/j.electacta.2007.10.02.
41. O. Scialdone, A. Galia, **A.A. Isse**, A. Gennaro, M.A. Sabatino, R. Leone, G. Filardo, “Electrocarboxylation of aromatic ketones: Influence of operative parameters on the competition between ketyl and ring carboxylation” *J. Electroanal. Chem.*, **2007**, *609*, 8–16. doi: 10.1016/j.jelechem.2007.02.014.
40. B. Corain, A.A. D’Archivio, L. Galantini, S. Lora, **A.A. Isse**, F. Maran, “Electrochemical, pulsed field gradient spin echo NMR spectroscopic, and ESR spectroscopic study of the diffusivity of molecular probes inside gel-type cross-linked polymers” *Chem. Eur. J.*, **2007**, *13*, 2392–2401. doi: 10.1002/chem.200601276.
39. L. Falciola, A. Gennaro, **A.A. Isse**, P.R. Mussini, M. Rossi, “The solvent effect in the electrocatalytic reduction of organic bromides on silver” *J. Electroanal. Chem.*, **2006**, *593*, 47–56. doi: 10.1016/j.jelechem.2006.02.003.
38. **A.A. Isse**, S. Gottardello, C. Maccato, A. Gennaro, “Silver nanoparticles deposited on glassy carbon. Electrocatalytic activity for reduction of benzyl chloride” *Electrochem. Commun.*, **2006**, *8*, 1707–1712. doi: 10.1016/j.elecom.2006.08.001.
37. **A.A. Isse**, A. De Giusti, A. Gennaro, “One- versus two-electron reaction pathways in the electrocatalytic reduction of benzyl bromide at silver cathodes” *Tetrahedron Lett.*, **2006**, *47*, 7735–7739. doi: 10.1016/j.tetlet.2006.08.123.
36. **A.A. Isse**, A. De Giusti, A. Gennaro, L. Falciola, P.R. Mussini, “Electrochemical reduction of benzyl halides at a silver electrode” *Electrochim. Acta* **2006**, *51*, 4956–4964. doi: 10.1016/j.electacta.2006.01.039.
35. **A.A. Isse**, L. Falciola, P.R. Mussini, A. Gennaro, “Relevance of electron transfer mechanism in electrocatalysis: The reduction of organic halides at silver electrodes” *Chem. Commun.*, **2006**, 344–346. doi: 10.1039/b513801a.
34. **A.A. Isse**, O. Scialdone, A. Galia, A. Gennaro, “The influence of aluminum cations on electrocarboxylation processes in undivided cells with Al sacrificial anodes” *J. Electroanal. Chem.*, **2005**, *585*, 220–229. doi: 10.1016/j.jelechem.2005.08.012.
33. **A.A. Isse**, M.G. Ferlin, A. Gennaro, “Electrocatalytic reduction of arylethyl chlorides at silver cathodes in the presence of carbon dioxide: Synthesis of 2-arylpropanoic acids” *J. Electroanal. Chem.*, **2005**, *581*, 38–45. doi: 10.1016/j.jelechem.2005.04.007.
32. A. Gennaro, C.M. Sánchez-Sánchez, **A.A. Isse**, V. Montiel, “Electrocatalytic synthesis of 6-aminonicotinic acid at silver cathodes under mild conditions” *Electrochem. Commun.*, **2004**, *6*, 627–631. doi: 10.1016/j.electom.2004.04.019.
31. **A.A. Isse**, A. Gennaro, “Homogeneous reduction of haloacetonitriles by electrogenerated organic anion radicals. Determination of the reduction potential of $\cdot\text{CH}_2\text{CN}$ ” *J. Phy. Chem. A*, **2004**, *108*, 4180–4186. doi: 10.1021/jp036782a.

30. **A.A. Isse**, A. Gennaro, "Mechanism of the electrochemical carboxylation of aromatic ketones in dimethylformamide" *Collect. Czech. Chem. Commun.*, **2003**, *68*, 1379–1394. doi: 10.1135/cccc20031379.
29. **A.A. Isse**, A. Gennaro, "Electrochemical reduction of benzyl bromide in the presence of carbon dioxide" *Ind. J. Chem.*, **2003**, *42A*, 751–757.
28. **A.A. Isse**, M.G. Ferlin, A. Gennaro, "Homogeneous electron transfer catalysis in the electrochemical carboxylation of arylethyl chlorides" *J. Electroanal. Chem.*, **2003**, *541*, 93–101. doi: 10.1016/S0022-0728(02)01418-3.
27. **A.A. Isse**, A. Gennaro, "Silver cathodes as electrocatalysts in the carboxylation of benzyl chlorides" in *Mechanistic and Synthetic Aspects of Organic and Biological Electrochemistry*, D. G. Peters, J. Simonet, H. Tanaka (eds.), Proc. Electrochem. Soc., **2003**, Vol. 12; 169–172.
26. A. Cardinale, **A.A. Isse**, A. Gennaro, "Estimation of the standard reduction potentials of some 1-arylethyl radicals in acetonitrile" *Electrochem. Commun.*, **2002**, *4*, 767–772. doi: 10.1016/S1388-2481(02)00447-2.
25. A. Cardinale, **A.A. Isse**, A. Gennaro, M. Robert, J.-M. Savéant, "Dissociative electron transfer to haloacetonitriles. An example of the dependency of in-cage ion-radical interactions upon the leaving group" *J. Am. Chem. Soc.*, **2002**, *124*, 13533–13539. doi: 10.1021/ja0275212.
24. **A.A. Isse**, A. Gennaro, "Electrochemical synthesis of cyanoacetic acid from chloroacetonitrile and carbon dioxide" *J. Electrochem. Soc.*, **2002**, *149*, D113–D117. doi: 10.1149/1.1490358.
23. **A.A. Isse**, A. Galia, C. Belfiore, G. Silvestri, A. Gennaro, "Electrochemical reduction and carboxylation of halobenzophenones" *J. Electroanal. Chem.*, **2002**, *526*, 41–52. doi: 10.1016/S0022-0728(02)00815-X.
22. **A.A. Isse**, A. Gennaro, "Electrocatalytic carboxylation of benzyl chlorides at silver cathodes in acetonitrile" *Chem. Commun.*, **2002**, 2798–2799. doi: 10.1039/b206746c.
21. **A.A. Isse**, A. Gennaro, "Electrochemical reduction and carboxylation of chloroacetonitrile" in *Organic Electrochemistry*, M. Workentin, F. Maran, K. Chiba, (eds.), Proc. Electrochem. Soc., **2002**, Vol. 10, 128–131.
20. A. Gennaro, **A.A. Isse**, F. Maran, "Nickel(I)(salen)-electrocatalyzed reduction of benzyl chlorides in the presence of CO₂" *J. Electroanal. Chem.*, **2001**, *507*, 124–134. doi: 10.1016/S0022-0728(01)00373-4.
19. A. Cardinale, A. Gennaro, **A.A. Isse**, F. Maran, "Substitution and dissociative electron transfer to benzyl halides" in *New Directions in Organic Electrochemistry*, A.J. Fry, Y. Matsumura (eds.), Proc. Electrochem. Soc., Vol. 2000-15, **2000**, 136–140.
18. **A.A. Isse**, A. Gennaro, F. Maran, "Mechanism of the dissociative electro-oxidation of oxalate in aprotic solvents" *Acta Chem. Scand.*, **1999**, *53*, 1013–1022. doi: 10.3891/acta.chem.scand.53-1013.
17. **A.A. Isse**, A. Gennaro, E. Vianello, "Mechanism of the electrochemical reduction of benzyl chlorides catalyzed by Co(salen)" *J. Electroanal. Chem.*, **1998**, *444*, 241–245. doi: 10.1016/S0022-0728(97)00572-X.

16. M. Zecca, **A.A. Isse**, F. Maran, A.A. D'Archivio, L. Galantini, B. Corain, "Chemistry and electrochemistry inside polymer networks: recent results" in: *Synthesis and Methodologies in Inorganic Chemistry*, S. Daolio, M. Fabrizio, E. Tondello, L. Armelao, P.A. Vigato (eds.), LA PHOTOGRAPH, Padova, Vol. 8, **1998**, 104–110.
15. **A.A. Isse**, A. Gennaro, E. Vianello, "Electrochemical reduction of Schiff base ligands H₂salen and H₂salophen" *Electrochim. Acta*, **1997**, 42, 2065–2071. doi: 10.1016/S0013-4686(97)85482-5.
14. **A.A. Isse**, A.M. Abdurahman, E. Vianello, "Role of proton transfer in the electrochemical reduction mechanism of salicylideneaniline" *J. Electroanal. Chem.*, **1997**, 431, 249–255. doi: 10.1016/S0022-0728(97)00222-2.
13. A. Gennaro, **A.A. Isse**, M.G. Severin, E. Vianello, I. Bhugun, J.-M. Savéant, "Mechanism of the electrochemical reduction of carbon dioxide at inert electrodes in medium of low proton availability" *J. Chem. Soc. Faraday Trans.*, **1996**, 92, 3963–3968. doi: 10.1039/ft9969203963.
12. A. Gennaro, **A.A. Isse**, J.-M. Savéant, M.G. Severin, E. Vianello, "Homogeneous electron transfer catalysis of the electrochemical reduction of carbon dioxide. Do aromatic anion radicals react in an outer-sphere manner?" *J. Am. Chem. Soc.*, **1996**, 118, 7190–7196. doi: 10.1021/ja960605o.
11. J.-M. Savéant, M.G. Severin, **A.A. Isse**, "Compared selectivities of redox-catalyzed and direct electrochemical processes. Part 2. Reactions in which product selection involves competition between dimerization and deactivation followed by further reduction (or oxidation)" *J. Electroanal. Chem.*, **1996**, 402, 195–201. doi: 10.1016/0022-0728(95)04204-0.
10. **A.A. Isse**, A.M. Abdurahman, E. Vianello, "Self-protonation mechanism in the electroreduction of hydroxyimines" *J. Chem. Soc. Perkin Trans. 2*, **1996**, 597–600. doi: 10.1039/p29960000597.
9. **A.A. Isse**, A. Gennaro, E. Vianello, "Electrochemical carboxylation of arylmethyl chlorides catalyzed by Co(salen) [H₂salen = N,N'-bis(salicylidene)ethane-1,2-diamine]" *J. Chem. Soc. Dalton Trans.*, **1996**, 1613–1618. doi: 10.1039/dt9960001613.
8. J.-M. Savéant, M.G. Severin, **A.A. Isse**, "Compared selectivities of redox-catalyzed and direct electrochemical processes. Part 1. Reactions in which product selection involves competition between dimerization and first order reactions" *J. Electroanal. Chem.*, **1995**, 399, 157–162. doi: 10.1016/0022-0728(95)04203-2.
7. **A.A. Isse**, A. Gennaro, E. Vianello, "The electrochemical reduction mechanism of [N,N'-1,2-phenylenebis(salicylideneiminato)]cobalt(II)" *J. Chem. Soc. Dalton Trans.*, **1993**, 2091–2096. doi: 10.1039/dt9930002091.
6. A. Gennaro, **A.A. Isse**, E. Vianello, "Electrochemical reduction of CO₂ catalyzed by transition metal complexes" in *Molecular Electrochemistry of Inorganic, Bioorganic and Organometallic Compounds*, A.J.L. Pombeiro, J.A. McCleverty (eds.), Kluwer Academic Publishers, **1993**, 311–316.
5. **A.A. Isse**, A. Gennaro, M.G. Severin, E. Vianello, "Carbon dioxide reduction by heterogeneous and homogeneous electrocatalysis" in *Proceedings of the International Conference on Carbon Dioxide Utilization*, M. Aresta (ed.), Bari, **1993**, 287–294.
4. **A.A. Isse**, A. Gennaro, E. Vianello, "A study of the electrochemical reduction mechanism of Ni(salophen) in DMF" *Electrochim. Acta*, **1992**, 37, 113–118. doi: 10.1016/0013-4686(92)80019-I.

3. **A.A. Isse**, A. Gennaro, E. Vianello, C. Floriani, “Electrochemical reduction of carbon dioxide catalyzed by [Co^I(salophen)Li]” *J. Mol. Catal.*, **1991**, *70*, 197–208. doi: 10.1016/0304-5102(91)80161-U.
2. A. Gennaro, **A.A. Isse**, E. Vianello, “Solubility and electrochemical determination of CO₂ in some dipolar aprotic solvents” *J. Electroanal. Chem.*, **1990**, *289*, 203–215. doi: 10.1016/0022-0728(90)87217-8.
1. A. Gennaro, **A.A. Isse**, E. Vianello, “Carbon dioxide activation through the Co(II)-salophen complex” in *Recent Advances in Electroorganic Synthesis*, S. Torii (ed.), Kodansha, Tokyo, **1987**, 321–324.