

List of publications:

- 1) T. Gatti, G. Girardi, N. Vicentini, R. Brandiele, M. Wirix, **C. Durante**, E. Menna; "Physico-chemical, electrochemical and structural insights into poly(3,4-ethylenedioxythiophene) grafted from molecularly engineered multi-walled carbon nanotube surfaces", *J. Nanosci. Nanotechnol.*, **2018**, 18, 1006-1018.
- 2) V. Perazzolo, R. Brandiele, C. Durante, M. Zerbetto, V. Causin, G.A. Rizzi, I. Cerri, G. Granozzi, A. Gennaro, Density Functional Theory (DFT) and Experimental Evidences of Metal–Support Interaction in Platinum Nanoparticles Supported on Nitrogen- and Sulfur-Doped Mesoporous Carbons: Synthesis, Activity, and Stability. *ACS Catalysis*, 2018, 8, 1122-1137, [I.F. 10.614](#).
- 3) 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. [I.F. 3.012](#)
- 4) R. Brandiele, L. Picelli, R. Pilot, V. Causin, A. Martucci, G.A. Rizzi, A.A. Isse, **C. Durante**,* A. Gennaro "Science inc. Nanomaterials & Polymers "Nitrogen and Sulfur Doped Mesoporous Carbons, Prepared from Templating Silica, as Interesting Material for Supercapacitors" *Chemselect*, **2017**, 2, 24, 7082–7090.
- 5) G. Giordano, **C. Durante**,* A. Gennaro, M. Guglielmi, Electrochemical 3D-growth of amorphous silica gel, *J. Electroanal. Chem.* **2017**, 784, 153–158. [I.F. 3.012](#)
- 6) R. Brandiele, **C. Durante**,* E. Gratzka, G.A. Rizzi, J. Zheng, D. Badocco, P. Centomo, P. Pastore, G. Granozzi, A. Gennaro, One Step forward to a Scalable Synthesis of Platinum-Yttrium alloyed Nanoparticles on Mesoporous Carbon for Oxygen Reduction Reaction, *J. Mater. Chem. A.* **2016**, 4, 12232–12240. [I.F. 8.867](#)
- 7) G. Giordano, **C. Durante**, A. Gennaro, M. Guglielmi, Multilayer Deposition of Silica Sol–Gel Films by Electrochemical Assisted Techniques, *J. Phys. Chem. C.* **2016**, 120, 28820–28824. [I.F. 4.536](#)
- 8) V. Perazzolo, **C. Durante**,* A. Gennaro, Nitrogen and sulfur doped mesoporous carbon cathodes for water treatment, *J. Electroanal. Chem.* **2016**, 782, 264–269. [I.F. 3.012](#)
- 9) V. Perazzolo, E. Gratzka, **C. Durante**,* R. Pilot, N. Vicentini, G.A. Rizzi, G. Granozzi, A. Gennaro, Chemical and Electrochemical Stability of Nitrogen and Sulphur Doped Mesoporous Carbons *Electrochim. Acta*, **2016**, 197, 251–262. [I.F. 4.798](#)
- 10) M. Zanatta, L. Calvillo, J. Zheng, G.A. Rizzi, **C. Durante**, G. Giallongo, et al., Cu₂O/TiO₂ heterostructures on a DVD as easy&cheap photoelectrochemical sensors, *Thin Solid Films.* **2016**, 603, 193–201. [I.F. 1.879](#)
- 11) V. Tripkovic, J. Zheng, G.A. Rizzi, C. Marega, **C. Durante**, J. Rossmeisl, G. Granozzi, Comparison between the Oxygen Reduction Reaction Activity of Pd₅Ce and Pt₅Ce: The Importance of Crystal Structure, *ACS Catal.* **2015**, 5, 6032–6040. [I.F. 10.614](#)
- 12) V. Perazzolo, **C. Durante**,* R. Pilot, A. Paduano, J. Zheng, G.A. Rizzi, A. Martucci, G. Granozzi, A. Gennaro, Nitrogen and sulfur doped mesoporous carbon as metal-free electrocatalysts for the in situ production of hydrogen peroxide, *Carbon* **2015**, 95, 949–963. [I.F. 6.337](#)
- 13) 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. [I.F. 4.123](#)
- 14) G. Giordano, **C. Durante**, A. Gennaro, M. Guglielmi, Electrochemical deposition of silica sol–gel films on stainless steel: preliminary analysis of key variables, *J. Sol-Gel Sci. Technol.* **2015**, 76, 233–240.
- 15) M. Favaro, F. Carraro, M. Cattelan, L. Colazzo, **C. Durante**, M. Sambri, et al., Multiple doping of graphene oxide foams and quantum dots: new switchable systems for oxygen reduction and water remediation, *J. Mater. Chem. A.* **2015**, 3, 14334–14347. [I.F. 8.867](#)
- 16) W. Ju, T. Brülle, M. Favaro, L. Perini, **C. Durante**, O. Schneider, U. Stimming, 2015. "Palladium Nanoparticles Supported on Highly Oriented Pyrolytic Graphite: Preparation, Reactivity and Stability". *ChemElectroChem*, **2015**, 2, 547–558. [I.F. 4.136](#)

- 17) M. Favaro, L. Ferrighi, G. Fazio, L. Colazzo, C. Di Valentin, **C. Durante**, F. Sedona, M. Sambì, A. Gennaro, S. Agnoli, G. Granozzi, "Single- and multi-doping in graphene quantum dots: unraveling the origin of selectivity in the oxygen reduction reaction" *ACS Catal.* **2015**, 5, 129-144. [I.F.10.614](#)
- 18) L. Perini, **C. Durante***, M. Favaro, V. Perazzolo, S. Agnoli, O. Schneider, G. Granozzi, A. Gennaro, "Metal-Support Interaction in Platinum and Palladium Nanoparticles Loaded on Nitrogen Doped Mesoporous Carbon for Oxygen Reduction Reaction" *ACS Appl. Mater. Interfaces* **2015**, 7, 1170-1179. [I.F. 7.504](#)
- 19) A. Adewuyi, A. Gennaro, C. Durante, Bioadsorbent Hura Crepitans for the removal of phenol from solution, *J. Water Chem. Technol.* **2015**, 37, 277–282. [I.F. 0.343](#)
- 20) L. Perini, **C. Durante**, M. Favaro, S. Agnoli, G. Granozzi, A. Gennaro, Electrocatalysis at palladium nanoparticles: Effect of the support nitrogen doping on the catalytic activation of carbon-halogen bond, *Appl. Catal. B: Environ.* **2014**, 144, 300-307. [I.F. 9.446](#)
- 21) **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. [I.F. 4.136](#)
- 22) M. Favaro, S. Agnoli, M. Cattelan, A. Moretto, **C. Durante**, S. Leonardi, J. Kunze-Liebhäuser, O. Schneider, A. Gennaro, G. Granozzi, "Shaping Graphene Oxide by Electrochemistry: from Foams to Self-Assembled Molecular Materials" *Carbon* **2014**, 77, 405-415. [I.F. 6.337](#)
- 23) W. Ju, M. Favaro, **C. Durante**, L. Perini, S. Agnoli, O. Schneider, U. Stimming,; G. Granozzi, "Pd Nanoparticles deposited on nitrogen-doped HOPG: New Insights into the Pd-catalyzed Oxygen Reduction Reaction" *Electrochim. Acta* **2014**, 141, 89–101. [I.F. 4.798](#)
- 24) **C. Durante**, V. Perazzolo, L. Perini, M. Favaro, G. Granozzi, A. Gennaro, "Electrochemical activation of Carbon Halogen Bonds: Electrocatalysis at Silver/Copper Nanoparticles" *Appl. Catal. B: Environ.* **2014**, 158-159, 286-295. [I.F. 9.446](#)
- 25) 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. [I.F. 4.396](#)
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- 27) M. Favaro, S. Agnoli, L. Perini, **C. Durante**, A. Gennaro, G. Granozzi, Palladium Nanoparticles Supported on Nitrogen-doped HOPG: a Surface Science and Electrochemical Study, *Phys. Chem. Chem. Phys.*, **2013**, 15, 2923-2931. [I.F. 4.123](#)
- 28) **C. Durante**, A.A. Isse, A. Gennaro, Electrocatalytic dechlorination of polychloroethylenes at silver cathode, *J. Appl. Electrochem.* **2013**, 43, 227–235. [I.F. 2.235](#)
- 29) M. Favaro, L. Perini, S. Agnoli, **C. Durante**, A. Gennaro, G. Granozzi, Electrochemical behavior of N and Ar implanted highly oriented pyrolytic graphite substrates and activity toward oxygen reduction reaction, *Electrochim. Acta*, 88, **2013**, 477-487. [I.F. 4.798](#)
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- 32) G. Giallongo, **C. Durante**, R. Pilot, D. Garoli, R. Bozio, F. Romanato, A. Gennaro, G. Granozzi, G. A. Rizzi, Growth and optical properties of Silver Nanostructures obtained on Connected Anodic Aluminum Oxide Templates. *Nanotechnology* **2012**, 23, 325604-325613, [I.F. 3.44](#)
- 33) B. Huang, A.A. Isse, **C. Durante**, C. Wei, A. Gennaro, Electrocatalytic properties of transition metals towards reductive dechlorination of polychloroethanes. *Electrochim. Acta*, 70, **2012**, 50-61. [I.F. 4.798](#)

- 34) G. Giallongo, R. Pilot, **C. Durante**, G. A. Rizzi, R. Signorini, R. Bozio, A. Gennaro and G. Granozzi, "Silver nanoparticle arrays on a DVD derived template: an *easy&cheap* SERS substrate" *Plasmonics*, **2011**, 6, 725–733. [I.F. 2.139](#)
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- 45) S. Santi, L. Orian, **C. Durante**, A. Bisello, P. Ganis, F. Benetollo, L. Crociani, A. Ceccon, "Tuning the electronic communication in heterobimetallic mixed-valence ions of (1-ferrocenyl)- and (2-ferrocenyl)indenyl rhodium isomers". *Chem. Eur. J.* **2007**, 13, 1955-1968. [I.F. 5.317](#)
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Patents

- 1) Christian Durante, Abdirisak Ahmed Isse, Paolo Negro Marcigaglia, Giancarlo Sandonà, Armando Gennaro brevetto *Metodo per l'abbattimento di concentrazioni recalcitranti di cromo in reflui acquosi con sostanze organiche* **PD2008A000357**, 01-12-2008.

Book chapters

Gennaro, A.; Durante, C. "Environmentally Accepted Processes for Substitution and Reduction of Cr(VI)." in *Encyclopedia of Applied Electrochemistry*. G. Kreysa, K-i Ota, R.F. Savinell (Eds); Springer Reference, New York Heidelberg Dordrecht London, **2014**. Pp. 866-872

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Presentation at National and International conferences

- 1) **Christian Durante**, Riccardo Brandiele, Mirco Zerbetto, Gian Andrea Rizzi, and Armando Gennaro, Metal-Support Interaction in Pt nanoparticle supported on Nitrogen Functionalized Mesoporous Carbon: a combined DFT and Experimental Approach, *XXVI Congresso Nazionale della Società Chimica Italiana*, September 10-14, 2017, Paestum, Italy.
- 2) **Christian Durante**, Giorgia Daniel, Giorgio Mattiacci, Gian Andrea Rizzi, and Armando Gennaro, Platinum free Electrocatalyst based on Fe-Nx moieties supported on Mesoporous Carbon prepared from polysaccharides for Oxygen Reduction Reaction, *XXVI Congresso Nazionale della Società Chimica Italiana*, September 10-14, 2017, Paestum, Italy.
- 3) Riccardo Brandiele, Luca Picelli, **Christian Durante**, and Armando Gennaro, Nitrogen and sulfur doped mesoporous carbon, prepared form templating silica gel, as interesting materials for supercapacitors, *XXVI Congresso Nazionale della Società Chimica Italiana*, September 10-14, 2017, Paestum, Italy.
- 4) Riccardo Brandiele, **Christian Durante**, Gian Andrea Rizzi and Armando Gennaro, New evidences of platinum-yttrium alloyed nanoparticles formation on carbon support and catalytic activity for oxygen reduction reaction, *XXVI Congresso Nazionale della Società Chimica Italiana*, September 10-14, 2017, Paestum, Italy.
- 5) **Christian Durante**, Riccardo Brandiele, Giorgio Mattiacci, Mirco Zerbetto, Gian Andrea Rizzi, and Armando Gennaro, A combined DFT and Experimental Approach for Probing Metal-Support Interaction in Pt nanoparticle supported on Nitrogen Functionalized Mesoporous Carbon, *68th Annual Meeting of the International Society of Electrochemistry*, 27 August- 1 September, Providence, RI, USA.
- 6) **Christian Durante**, Giorgia Daniel, Enrico Foltran, Giorgio Mattiacci, Gian Andrea Rizzi, Armando Gennaro, PGM free Electrocatalyst based on Fe-Nx modified Mesoporous Carbon prepared from Biosources for ORR, *68th Annual Meeting of the International Society of Electrochemistry*, 27 August- 1 September, Providence, RI, USA.
- 7) **Christian Durante**, Riccardo Brandiele, Gian Andrea Rizzi, and Armando Gennaro, Probing the Metal-Support Interaction in Mesoporous Carbon material modified with Dichloro(1,10-phenanthroline)platinum(II), *XII ECHEMS meeting*, June 6-9 2017 Milano Marittima, Italy
- 8) **Christian Durante**, Giorgia Daniel, Enrico Foltran, G.A. Rizzi, G. Granozzi, Armando Gennaro, PGM free Electrocatalyst based on Fe-Nx modified Mesoporous Carbon for Oxygen Reduction Reaction, *European Fuel Cell Car Workshop*, March 1-3, 2017, Orleans France.
- 9) **Christian Durante**, Riccardo Brandiele, Gian Andrea Rizzi and Armando Gennaro, New evidences of platinum-yttrium alloyed nanoparticles formation on carbon support and catalytic activity for oxygen reduction reaction, *European Fuel Cell Car Workshop*, March 1-3, 2017, Orleans France.
- 10) Riccardo Brandiele, **Christian Durante**, Gian Andrea Rizzi, Gaetano Granozzi, Armando Gennaro. One Step forward to a Scalable Synthesis of Platinum-Yttrium alloyed Nanoparticles on Mesoporous Carbon for Oxygen Reduction Reaction, *Giornate dell'elettrochimica Italiana - GEI 2016*, 11 - 14 settembre 2016, Gargnano, Italy.

- 11) Riccardo Brandiele, **Christian Durante**, Lina Schiba and Armando Gennaro, Novel Platinum and Palladium Nanoparticles Synthesis on Nitrogen-Doped Mesoporous Carbon for Oxygen Reduction Reaction, *Giornate dell'elettrochimica Italiana* - GEI 2016, 11 - 14 settembre 2016, Gargnano, Italy.
- 12) Valentina Perazzolo, Robin Astier-Perret, **Christian Durante**, Isotta Cerri and Armando Gennaro, Pt nanoparticles on N- and S-Doped Mesoporous Carbon: RDE characterization towards ORR and application as cathode in PEMFCs, *Giornate dell'elettrochimica Italiana* - GEI 2016, 11 - 14 settembre 2016, Gargnano, Italy.
- 13) Armando Gennaro, Luca Picelli, Valentina Perazzolo, Alessandro Martucci, Valerio Causin, **Christian Durante**, Chemical and Electrochemical Properties of Mesoporous Carbon Nitride Suitable for Hydrogen Peroxide Production, *Giornate dell'elettrochimica Italiana* - GEI 2016, 11 - 14 settembre 2016, Gargnano, Italy.
- 14) Armando Gennaro, Enrico Foltran, **Christian Durante**. Pt Free Electrocatalyst for Oxygen Reduction Reaction Based on Nitrogen Doped Mesoporous Carbon *Giornate dell'elettrochimica Italiana* - GEI 2016, 11 - 14 settembre 2016, Gargnano, Italy.
- 15) Dmytro Chirkov, **Christian Durante**, Tomasz Kosmala, Stefano Agnoli, Armando Gennaro, EC-STM characterization of graphene supported metal nanoparticles, *Giornate dell'elettrochimica Italiana* - GEI 2016, 11 - 14 settembre 2016, Gargnano, Italy.
- 16) Dmytro Chirkov, **Christian Durante**, Tomasz Kosmala, Stefano Agnoli, Armando Gennaro, Graphene supported metal nanoparticles studied by EC-STM, *The 11th International Symposium on Electrochemical Micro & Nanosystem Technologies (EMNT2016)*, 17 - 19 August 2016, Brussels, Belgium.
- 17) Valentina Perazzolo, **Christian Durante**, Gian Andrea Rizzi, Gaetano Granozzi, Armando Gennaro, Nitrogen and Sulphur Doped Mesoporous Carbon as Support for Platinum Nanoparticles, *67th Annual Meeting of the International Society of Electrochemistry*, 21-26 August, 2016 The Hague, The Netherlands
- 18) Valentina Perazzolo, Robin Astier-Perret, **Christian Durante**, Isotta Cerri and Armando Gennaro, Controlled size Pt-Nanoparticles on N- and S-Doped Mesoporous Carbon as Cathode Materials for PEMFCs, *67th Annual Meeting of the International Society of Electrochemistry*, 21-26 August, 2016 The Hague, The Netherlands
- 19) Armando Gennaro, Luca Picelli, Valentina Perazzolo, Roberto Pilot, Alex Martucci Valerio Causin, **Christian Durante**, Chemical and Electrochemical Properties of Mesoporous Carbon Nitride suitable for Oxygen Reduction Reaction, *67th Annual Meeting of the International Society of Electrochemistry*, 21-26 August, 2016 The Hague, The Netherlands
- 20) **Christian Durante**, Armando Gennaro, Gaetano Granozzi, Valentina Perazzolo, Luca Picelli, Gian Andrea Rizzi, Synergistically Enhanced Performances of Pt Nanoparticles on Doped Mesoporous Carbon for Oxygen Reduction Reaction, *18th Topical Meeting of the International Society of Electrochemistry*, 8 – 11 March 2016 Gwangju, South Korea.
- 21) Riccardo Brandiele, **Christian Durante**, Emilia Grądzka, Jang Zheng, Gian Andrea Rizzi, Gaetano Granozzi, Armando Gennaro, Pt₃Y alloy synthesis on Mesoporous Carbon Support, *Enerchem-1*, 18-20 February 2016, Florence.
- 22) **Christian Durante**, Armando Gennaro, Luca Picelli, Gaetano Granozzi, Valentina Perazzolo, Gian Andrea Rizzi, Synergistically Enhanced Performances of Pt Nanoparticles on Doped Mesoporous Carbon for Oxygen Reduction Reaction, *Enerchem-1*, 18-20 February 2016, Florence.
- 23) Riccardo Brandiele, **Christian Durante**, Emilia Grądzka, Jian Zheng, Gian Andrea Rizzi, Gaetano Granozzi, Armando Gennaro, Pt₃Y alloy synthesis on Mesoporous Carbon Support, 3degis, *3rd International Workshop on Degradation Issues of Fuel Cells and Electrolysers*, 29 September – 1 October 2015, Santorini, Greece.
- 24) Valentina Perazzolo, **Christian Durante**, Roberto Pilot, Andrea Paduano, Jian Zheng, Gian Andrea Rizzi, Alex Martucci, Gaetano Granozzi, Armando Gennaro, Nitrogen and Sulphur Doped Mesoporous Carbon as Metal Free Electrocatalyst for the in Situ Production of Hydrogen Peroxide, *GEI 2015, Giornate dell'Elettrochimica Italiana* 20-24 Settembre 2015, Bertinoro, Italy.

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- 26) Valentina Perazzolo, **Christian Durante**, Gian Andrea Rizzi, Gaetano Granozzi, Armando Gennaro, Platinum Nanoparticles on Nitrogen and Sulphur Doped Mesoporous Carbon for Oxygen Reduction Reaction, *GEI 2015, Giornate dell'Elettrochimica Italiana* 20-24 Settembre 2015, Bertinoro Italy.
- 27) Dmytro Chirkov, **Christian Durante**, Tomasz Kosmala, Stefano Agnoli, Armando Gennaro, EC-STM characterization of CVD grown graphene and Nitrogen Doped graphene *GEI 2015, Giornate dell'Elettrochimica Italiana* 20-24 Settembre 2015, Bertinoro Italy.
- 28) Valentina Perazzolo, **Christian Durante**, Roberto Pilot, Jian Zheng, Andrea Paduano, Valentina Rizzato, Gian Andrea Rizzi, Amedeo Maddalena, Renato Bozio, Gaetano Granozzi, Armando Gennaro, Nitrogen and Sulphur Doped Mesoporous Carbon as Support for Pt Electrocatalyst in Oxygen Reduction Reaction, *13th International Fischer Symposium a meeting on nanoscale electrochemistry*, June 7-11, 2015. Lübeck, Germany.
- 29) Armando Gennaro, Emilia Grądzka, Marco Favaro, Gaetano Granozzi, **Christian Durante**, Preparation and characterization of Pt_nY nanoparticles deposited on mesoporous carbon, *ISE 2014, 65th Annual Meeting*, 31 August - 5 September, 2014, Lausanne, Switzerland.
- 30) **Christian Durante**, Valentina Perazzolo, Abdirisak Ahmed Isse, Marco Favaro, Gaetano Granozzi, Armando Gennaro, Electrochemical Activation of Carbon-Halogen Bonds: Electrocatalysis at Palladium/Copper Nanoparticles, *ISE 2014, 65th Annual Meeting*, 31 August - 5 September, 2014, Lausanne, Switzerland.
- 31) Christian Durante, Emilia Grądzka, Roberto Pilot, Zheng Jian, Renato Bozio, Gaetano Granozzi, Armando Gennaro, Comparison of Differently Doped Mesoporous Carbons: Activity and Stability vs Oxygen Reduction Reaction, *ISE 2014, 65th Annual Meeting*, 31 August - 5 September, 2014, Lausanne, Switzerland.
- 32) **Christian Durante**, Lorenzo Perini, Marvo Favaro, Stefano Agnoli, Gaetano Granozzi, Armando Gennaro, Electrocatalysis at Pd Nanoparticles: Effect of the Support Nitrogen Doping on the Catalytic Activation of Carbon-Halogen Bond, *ISE 2013, 64th Annual Meeting*, 8-13 September 2013. Queretaro, Mexico.
- 33) Lorenzo Perini, **Christian Durante**, Silvia Lombardi, Oliver Schneider, Julia Kunze, Gaetano Granozzi, Armando Gennaro. Synthesis of Nitrogen Doped Mesoporous Carbon Catalyst Supported with Metal Nanoparticles for the Oxygen Reduction Reaction, *ISE 2013, 64th Annual Meeting* 8-13 September 2013, Queretaro, Mexico.
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