

**DOTT.  
CHRISTIAN DURANTE**



**INFORMAZIONI PERSONALI**

Name	<b>DR. PH.D. CHRISTIAN DURANTE</b>
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Nationality	ITALIAN
Date and place of birth	21/10/1976 MONTEBELLUNA (TV)

**Work experiences and Educational background:**

<b>From 12/2017</b>	<b>Associate Professor</b> in Physical Chemistry at the Department of Chemical Sciences of the University of Padova
<b>2010-2017</b>	<b>Assistant Professor</b> in Physical Chemistry at the Department of Chemical Sciences of the University of Padova
<b>07/2011</b>	<b>visiting scientist</b> at Alicante University (Spain); research advisor Prof. Vicente Montiel, Research project: <i>“scanning electrochemical microscopy as fast screening technique of metal alloy electrocatalyst for the reduction of carbon-Halogen bond”</i>
<b>03/2007-12/2010</b>	<b>post-doc fellowship</b> at the University of Padova, Dep. of Chemical Sciences, Research advisor: Prof. A. Gennaro. Research project: <i>“Electrochemical treatments of industrial wastewaters”</i>
<b>01/2004-31/2006</b>	<b>PhD student</b> at the University of Padova, Dep. of Physical Chemistry, Research advisor: Prof. S. Santi. Research project: <i>A study of the cooperative effect in polymetallic complexes with polycyclic unsaturated ligands.</i>
<b>01/05-31/12/03</b>	<b>Post graduate research student:</b> department of Physical Chemistry, University of Padova, supervisor Prof. S. Santi, research project <i>“Effect of the electronic communication in mixed valence bimetallic complexes”.</i>
<b>27/03/03</b>	<b>Degree in Industrial Chemistry</b> , Università degli Studi di Padova. Thesis: <i>Chemical communication induced by electron transfer in ferrocenyl-indenyl-Cr(CO)<sub>3</sub> complexes.</i>

**Awards**

<b>March 2013</b>	<b>Ise travel Award</b> , awarded by <b>International Society of Electrochemistry</b> to young electrochemists for encouraging the participation at the ISE Annual Meetings in recognition of the quality of their scientific research.
<b>March 2017</b>	<b>Dr. Comm. Alceste Mion Award- Edizione 2016</b> for his contribution to electrochemistry and a new and interdisciplinary approach to electrocatalysis

**Academic activity:**

- Member of the Chemical Sciences Department Council
- Member of the PhD course in Science and Engineering of Materials Nanostrutture

- Member of the Master course in Material Science
- Member of the Master course in Pharmacy

### **Teaching**

- Teaching assistant to Laboratory Course of Physical Chemistry: Laurea Specialistica in Industrial Chemistry (a.a 2005/2006-2008/2009-2009/2010)
- Teaching assistant to Laboratory Course of Physical Chemistry IV: Laurea Specialistica in Chemistry (a.a 2008/2009-2009/2010)
- Teaching assistant to Laboratory Course of Industrial Physical Chemistry II: Laurea Specialistica in Industrial Chemistry (a.a 2010/2011)
- Laboratory Course of Physical Chemistry II (4 CFU): Laurea Specialistica in Chemistry (a.a 2011/2012 and 2012/2013)
- Laboratory Course of Physical Chemistry (4 CFU): Laurea Specialistica in Industrial Chemistry (a.a 2013/2014 and 2014/2015)
- Electrochemistry for Material Sciences (1 CFU): Laurea Magistrale in Material Sciences (a.a 2012/2013; )
- Electrochemistry for Material Sciences (2 CFU): Laurea Magistrale in Material Sciences (a.a 2013/2014)
- Electrochemistry for Material Sciences (4 CFU): Laurea Magistrale in Material Sciences (a.a 2014/2015, 2015/2016 and 2016/2017)
- Electrochemistry for Material Sciences (6 CFU): Laurea Magistrale in Material Sciences (a.a 2017/2018)
- Analytical Chemistry and Principles of Statistic (4 CFU): Laurea Magistrale in Pharmacy (a.a 2013/2014, 2014/2015, 2015/2016 and 2016/2017)
- Analytical Chemistry and Principles of Statistic (8 CFU): Laurea Magistrale in Pharmacy (a.a 2017/2018)

### **Master thesis supervisor:**

1. Luca Picelli: (2015/2016) Sintesi via hard template e caratterizzazione di carboni mesoporosi per applicazioni in elettrocatalisi
2. Enrico Foltran: (2015/2016) Elettrocatalizzatori basati su carbonio privi di metalli nobili con elevate prestazioni verso la reazione di riduzione dell'ossigeno indotte da funzionalizzazione specifica con tris(1,10-fenantrolina)ferro(II)solfato
3. Giorgia Daniel (2016/2017) Elettrocatalizzatori Platinum free basati su centri funzionali Fe-N<sub>x</sub> supportati su carbonio mesoporoso sintetizzato da polisaccardi con elevate prestazioni verso la reazione di riduzione dell'ossigeno.
4. Giorgio Mattiacci (2016/2017) Sintesi e caratterizzazione di nanoparticelle di SnO<sub>2</sub> supportate su carboni mesoporosi *next-generation* per la reazione di riduzione della CO<sub>2</sub> ad acido formico.
5. Alessandro Facchin (2017/2018) Indagine EC-STM di macrocicli di Ferro e Cobalto come sistemi modello per la reazione di riduzione dell'ossigeno
6. Federico Brombin (2017/2018) Sintesi e caratterizzazione di carboni mesoporosi funzionalizzati con siti catalitici Fe-n<sub>x</sub>
7. Paolo Ciocci (2017/2018) Sintesi e caratterizzazione di catalizzatori di Pt/Gd per la reazione di riduzione dell'ossigeno
8. Mark Suslov (2017/2018) Sintesi e caratterizzazione di catalizzatori PGM free attraverso l'utilizzo di polimeri chelanti del Ferro e di riciclo
9. Giuseppe Zito (2017/2018) Ionic liquid impregnated Pt based catalyst inks for RDE tests, study and characterization using DLS technique.
10. Miriam Moro (2018/2019) Sintesi e caratterizzazione di catalizzatori di Pt/Y a morfologia orientata per la reazione di riduzione dell'ossigeno

### **PhD thesis supervisor:**

1. Dmytro Chirckov: (2014-2017) Graphene supported metal nanoparticles studied by Electrochemical Scanning Tunneling Microscopy.
2. Riccardo Brandiele: (2016-2019) Synthesis and characterization of materials for PEM-FC, based on Pt alloyed nanoparticles supported on next generation mesoporous carbon.
3. Giorgia Daniel: (2017-2020) Synthesis and characterization of materials for PEM-FC based on Fe-Nx active site supported on next generation mesoporous carbon.

### **Research background**

Christian Durante is Associate Professor in Physical Chemistry at the Department of Chemical Sciences (DiSC) of the University of Padova (UniPD), where he works as a member of the Electrocatalysis and Applied Electrochemistry Group. Christian Durante received his degree in Industrial Chemistry at UniPD in March 2003, carrying out a thesis on electron transfer in mono- and bimetallic Fe and Cr complexes in the research group of Prof. A. Ceccon. This research subject has been further deepened in the following years during his PhD in Chemical Sciences, which he obtained in March 2007. In these years he developed the synthesis and the electrochemical and spectroelectrochemical characterization of heteropolymetallic complexes of iron, rhodium and chromium. During his PhD he developed a whole series of spectroscopic techniques (UV-Vis, near-IR with fiber optic detector, IR ) coupled with an electrochemical cell for the fundamental investigation of intramolecular electron transfer kinetics in donor-acceptor systems at low temperatures. Immediately after PhD, he joined the group of Prof. A. Gennaro at UniPD as an assistant researcher (postdoc) and held that position until december 2010, when he became Assistant Professor in Physical Chemistry at DiSC. As assistant researcher, C. Durante has widened his research activities, in particular in molecular electrochemistry, both organic and inorganic and in environmental electrochemistry. In the latter field he has deeply investigated the reduction of halogenated VOCs at Ag and Cu electrodes and the abatement of heavy metals, Cr in particular, from industrial wastewaters. He has also studied the electrocatalytic activities of Ag and Cu towards the carboxylation reaction of several aromatic halides, investigating also the role of proton transfer and hydrogen atom abstraction as side reactions in the electrocarboxylation process.

He is currently working in the field of electrocatalysis applied to energy production and storage. He is interested in the fundamental investigation of catalytic effects associated to the size and morphology of metal NPs and alloyed NPs, loaded on nitrogen doped carbon-based electrodes. In 2011 he spent a research period in Alicante, Spain, as visiting researcher in the group of Prof. Vicente Montiel (Alicante University). He collaborates with several European leading groups in the field of surface science (Prof. Granozzi at UniPD; Prof. Wandelt at Bonn University, Germany), electrocatalysis (Prof. Kim Daasbjerg at Aarhus University, Denmark) and fuel cell (Prof. Oliver Schneider at TUM Technische Universität München, Germany), Isotta Cerri (Toyota Motor Europe).

He is a member of the Italian Chemical Society and the International Society of Electrochemistry. He is the author of 49 papers ( $h_{\text{index}}=19$ , Publications in the last 5 years: 31, Citations: 831, Citations in the last 5 years: 665, cumulative impact factor of the 10 best publications: 94), published in peer-reviewed international journals, and more than 70 presentations in national and international conferences. Furthermore, he is the author of an Italian patent and two book chapters.

### **National and international project:**

1. Italy-Germany Bilateral project "Vigoni Project" BV10-78 (joint program between the University of Padova and the TUM, Munich) title: "Noble metal nanoparticles on HOPG as electrocatalysts for fuel cells: effect of support doping." 01-01-2011 - 31-12-2013;
2. Italy-Spain Bilateral project "Estudio por medio del microscopio electroquímico de barrido de la electrocatalisis que presentan diferentes metales no nobles y sus aleaciones en reacciones de dehalogenación" Prof: Vicente Montiel Leguey, Instituto Universitario de Electroquímica, Universidad de Alicante 19-07-2011 - 28-07-2011;
3. European Project "CathCat" (Joint Undertaking FCH-JU within the CathCat project under contract No. 303492): Novel Catalyst materials for the cathode side of MEAs suitable for transportation applications 01-01-2012 - 31-12-2015;

4. European Project DECORE N° 309741 "Direct ElectroChemical Oxidation Reaction of Ethanol: optimization of the catalyst/support assembly for high temperature operation" 01-01-2012 - 31-12-2016;
5. European Project CRESCENDO N° 779366, Towards next generation of PEMFC: Non-PGM catalysts 2018-2020
6. Italian Project FIRB Giovani Futuro in Ricerca 2012 RBFR128BEC "Beyond graphene: tailored C-layers for novel catalytic materials and green chemistry" dal 01-01-2013 al 31-01-2015
7. Project leader in "Progetto di Ricerca di Ateneo" CPDA139814/13 "Preparation of innovative mesoporous carbons with uniquely combined chemical, electrochemical and mass transport characteristics to be employed as electrode support for electrocatalysis applications" 01-01-2014 - 01-09-2016

**Referee for the selected journals**

1. RCS Advances
2. Carbon
3. Chemical Engineering Journal
4. Electrochimica Acta (3)
5. ACS Applied Materials & Interfaces
6. International journal of Hydrogen Energy (2)
7. Applied Catalysis B: Environmental
8. Journal of Electroanalytical Chemistry
9. Water Research
10. Journal of Material Chemistry A
11. Material Chemistry and Physics
12. Separation and Purification Technology
13. Langmuir

Padova, 29/03/2018

(Christian Durante)

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### 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. Gradzka, 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. Grądzka, **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., Cu<sub>2</sub>O/TiO<sub>2</sub> 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 Pd<sub>5</sub>Ce and Pt<sub>5</sub>Ce: 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. Sambì, 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. Cat. 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](#)
- 26) **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**, 7, G3073-G3079. [I.F. 3.259](#)
- 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 Electrochemical 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](#)

- 30) A.A. Isse, B. Huang, **C. Durante**, A. Gennaro, Electrocatalytic dechlorination of volatile organic compounds at a copper cathode. Part I: Polychloromethanes, *Appl. Catal. B: Environ.* 126, **2012**, 347-354. [I.F. 9.446](#)
- 31) **C. Durante**, B. Huang, A.A. Isse, A. Gennaro, Electrocatalytic dechlorination of volatile organic compounds at copper cathode. Part II: Polychloroethanes, *Appl. Catal. B: Environ.* 126, **2012**, 355-362. [I.F. 9.446](#)
- 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](#)
- 35) A.A. Isse, **C. Durante**, A. Gennaro "One-pot synthesis of benzoic acid by electrocatalytic reduction of bromobenzene in the presence of CO<sub>2</sub>". *Electrochem. Commun.*, **2011**, 13-810-813. [I.F. 4.396](#)
- 36) **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 Research*, **2011**, 45, 2122-2130. [I.F. 6.942](#)
- 37) A. Mattarei, N. Sassi, **C. Durante**, L. Biasutto, G. Sandonà, E. Marotta, S. Garbisa, A. Gennaro, C. Paradisi, M. Zoratti, "Redox properties and cytotoxicity of synthetic isomeric mitochondriotropic derivatives of the natural polyphenol quercetin" *Eur. J. Org. Chem.* **2011**, 28, 5577-5586. [I.F. 2.834](#)
- 38) S. Santi, **C. Durante**, A. Donoli, A. Bisello, L. Orian, P. Ganis, A. Ceccon, F. Benetollo. "Intervalence Charge Transfer in Cationic Heterotrinary Fe(III)–Rh(I)–Cr(0) Triads of the Polyaromatic Cyclopentadienyl–Indenyl Ligand". *Organometallic*. **2010**, 29, 29 (9), 2046–2053. [I.F. 3.862](#)
- 39) **C. Durante**, A.A. Isse, G. Sandonà, A. Gennaro "Exhaustive depletion of recalcitrant chromium fractions in a real wastewater". *Chemosphere* **2010**, 78, 620-625. [I.F. 4.208](#)
- 40) **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. [I.F. 9.446](#)
- 41) A.A. Isse, **C. Durante**, G. Sandonà, A. Gennaro. "Voltammetric investigation of the dissociative electron transfer to polychloromethanes at catalytic and non-catalytic electrodes". *Electrochim. Acta* , **2009**, 54, 3235-3243. [I.F. 4.798](#)
- 42) S. Santi, **C. Durante**, A. Donoli, A. Bisello, L. Orian, L. Crociani, F. Benetollo, A. Ceccon. "Mixed valence properties in ferrocenyl-based bimetallic FeCp-Indenyl-ML<sub>n</sub> complexes: Effect of the ML<sub>n</sub> Group". *Organometallic*. **2009**, 28, 3319-3326. [I.F. 3.862](#)
- 43) 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. [I.F. 4.123](#)
- 44) S. Santi, L. Orian, A. Donoli, **C. Durante**, A. Bisello, M. Di Valentin, P. Ganis, F. Benetollo, A. Ceccon. "Tunable electronic coupling in iron-chromium mixed-valence ions of methylated Cp-indene ligands". *J. Organomet. Chem.* **2008**, 693, 3797–3809. [I.F. 2.184](#)

- 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](#)
- 46) S. Santi, L. Orian, **C. Durante**, E. Z. Bencze, A. Donoli, P. Ganis, F. Benetollo, A. Ceccon, "Metal-metal electronic coupling in syn and anti stereoisomers of mixed-valent (FeCp)<sub>2</sub><sup>2-</sup>, (RhL<sub>2</sub>)<sub>2</sub><sup>2-</sup>, and (FeCp)(RhL<sub>2</sub>)-as-indacenediide ions". *Chem. Eur. J.* **2007**, 13, 7933-7947. [I.F. 5.317](#)
- 47) S. Santi, L. Orian, A. Donoli, **C. Durante**, A. Bisello, P. Ganis, A. Ceccon, "Charge Transfer through isomeric unsaturated hydrocarbons. redox switchable optical properties and electronic structure of substituted indenenes with a pendant ferrocenyl". *Organometallics* **2007** 26; 5867-5879. [I.F. 3.862](#)
- 48) L. Medei, L. Orian, O. V. Semeikin, M. G. Peterleitner, N. A. Ustynyuk, C. Lo Sterzo, A. Ricci, **C. Durante**, S. Santi, "A joint experimental and computational study on the electronic communication in diethynylaryl-bridged ( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>)Fe( $\eta^2$ -dppe) and ( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>)Fe(CO)<sub>2</sub> units". *Eur J. Inorg Chem*, **2006**, 13, 2582-2597. [I.F. 2.444](#)
- 49) S. Santi, A. Bisello, **C. Durante**, P. Ganis, L. Orian, A. Ceccon "Designing molecules for metal-metal electronic communication: Synthesis and molecular structure of the couple of heterobimetallic isomers [ $\eta^6$ -(2-Ferrocenyl)indene]-Cr(CO)<sub>3</sub> and [ $\eta^6$ -(3-Ferrocenyl)indene]-Cr(CO)<sub>3</sub>". *Organometallics* **2005**, 24, 4691-4694. [I.F. 3.862](#)

#### 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

Gennaro, A.; Durante, C. "Nitrogen doped mesoporous carbon as electrocatalyst for oxygen reduction reaction" in *Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry*. K. Wandelt (Ed); Elsevier, **2018**. Accepted.

#### 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-N<sub>x</sub> 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, Pt<sub>3</sub>Y 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, Pt<sub>3</sub>Y 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.
- 25) Riccardo Brandiele, **Christian Durante**, Emilia Grądzka, Jian Zheng, Gian Andrea Rizzi, Gaetano Granozzi, Armando Gennaro, Pt<sub>3</sub>Y alloy synthesis on Mesoporous Carbon Support, *GEI 2015, Giornate dell'Elettrochimica Italiana* 20-24 Settembre 2015, Bertinoro, Italy.
- 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<sub>n</sub>Y 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.
- 34) Carlos M. Sánchez-Sánchez, **Christian Durante**, Armando Gennaro, Vicente Montiel, Electrocatalysts for the Carbon-Halogen Bond Reduction Screened by Scanning Electrochemical Microscopy, *ISE 2013, 64th Annual Meeting* 8-13 September 2013, Queretaro, Mexico.
- 35) **Christian Durante**, Binbin Huang, Abdirisak A. Isse, Armando Gennaro, Highly Selective Electrochemical Hydrogenation of Acetylene to Ethylene at Ag and Cu Cathodes, *ISE 2013, 64th Annual Meeting* 8-13 September 2013, Queretaro, Mexico.
- 36) Marco Favaro, Stefano Agnoli, Silvia Leonardi, Alessandro Moretto, Denis Garoli, Mattia Cattelan, **Christian Durante**, Oliver Schneider, Julia Kunze and Gaetano Granozzi, Cut&Paste of graphene electrodes: bottom-up and top-down methods for the development of three-dimensional graphene-based materials, XLI Congresso Nazionale della Divisione di Chimica Inorganica, 3-6 settembre 2013, Parma, Italy.
- 37) **C. Durante**, V. Perazzolo, L. Perini, A. Gennaro, Carbon-Halogen Bond Activation At Nanostructured Copper And Palladium Electrodes, *GEI 2013*, 22-27 September 2013, Pavia, Italy.
- 38) **C. Durante**, L. Perini, M. Favaro, S. Agnoli, G. Granozzi, A. Gennaro, Electrocatalysis at palladium Nanoparticles: Effect of the Nitrogen Doped Glassy Carbon on the Catalytic Activation of Carbon-Halogen Bond, *GEI 2013*, September 2013, Pavia, Italy.
- 39) **Christian Durante**, Marvo Favaro, Lorenzo Perini, Stefano Agnoli, Gaetano Granozzi, Armando Gennaro, Pd nanoparticles on HOPG as electrocatalysts for fuel cells: Effect of support doping, *ISE 2012, 63th Annual Meeting*, 19-24 August 2012, Prague, Czech Republic.
- 40) **Christian Durante**, Binbin Huang, Abdirisak A. Isse, Armando Gennaro, Copper Electrodes: New Perspectives in Electrocatalytic Activation of Alkyl Halides, *ISE 2012, 63th Annual Meeting* 19-24 August 2012, Prague, Czech Republic.
- 41) **Christian Durante**, Giuseppe Giallongo, Gian Andrea Rizzi, Roberto Pilot, Renato Bozio, Denis Garoli, Filippo Romanato, Gaetano Granozzi, Armando Gennaro, AAO assisted Fabrication of 2D arrays of silver

- nanostructures for applications as optical sensors, *ISE 2012, 63th Annual Meeting* 19-24 August 2012, Prague, Czech Republic.
- 42) **Christian Durante**, Binbin Huang, Abdirisak A. Isse, Armando Gennaro, Copper Cathode: a promising alternative in the catalytic Activation of carbon-Halogen bonds. *GEI-ERA 2012*, 17-22 September 2012, Isola di Salina, Italy.
  - 43) Lorenzo Perini, **Christian Durante**, Marco Favaro, Stefano Agnoli, Gaetano Granozzi, Armando Gennaro, Palladium Nanoparticles on N-doped HOPG for Oxygen Reduction Reaction, 17-22 September 2012, Isola di Salina, Italy.
  - 44) G. Giallongo, **C. Durante**, G. A. Rizzi, L. Artiglia, D. Garoli, F. Romanato, A. Gennaro and G. Granozzi, "Self-limited growth of Ag nano-rods into AAO nanopores", *XXIV Congresso Nazionale S.C.I.*, , September 11-16, 2011, Lecce, Italy.
  - 45) M. Giomo, R. Trevisiol, **C. Durante**, A. Gennaro, "Exhaustive depletion of recalcitrant chromium fraction by electrocoagulation in a continuous flow pilot plant" *XXIV Congresso Nazionale S.C.I.*, , September 11-16, 2011, Lecce, Italy.
  - 46) **C. Durante**, B. Huang, A. A. Isse, A. Gennaro, "Electrocatalytic Activation of Alkyl Halides at Copper Electrodes". *XXIV Congresso Nazionale S.C.I.*, , September 11-16, 2011, Lecce, Italy.
  - 47) L. Perini, **C. Durante**, R. Pilot, G. Giallongo, G. Granozzi, R. Bozio, A. Gennaro, Electrodeposition of metal nanoparticles on commercially available Digital Versatile Disk (DVD) for sensing and catalysis. *XXIV Congresso Nazionale S.C.I.*, , September 11-16, 2011, Lecce, Italy.
  - 48) 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", *VIII international conference INSTM*, June 26-29 2011, Catania, Italy.
  - 49) **C. Durante**, A. Mattarei, M. Zoratti, C. Paradisia, A Gennaro "Redox Properties of new Quercetin-Based Potential Prodrugs". *ISE 2010, 61th Annual Meeting*, September26- October 1, 2010, Nice, France.
  - 50) **C. Durante**, M. Cuskov, A. A. Isse, G. Sandonà, A. Gennaro, "Two Steps Process for Exhaustive Heavy Metals Abatement: The Case of Cr-EDTA Complex". *ISE 2010, 61th Annual Meeting* September26- October 1, 2010, Nice, France.
  - 51) **C. Durante**, A. Mattarei, M. Zoratti, C. Paradisi, A Gennaro "Redox Properties and oxidation mechanism of new Quercetin-Based Potential Prodrugs". *GEI-ERA 2010*, September, 5-10 2010, Modena, Italy.
  - 52) **C. Durante**, M. Cuskov, A. A. Isse, G. Sandonà, A. Gennaro, "Cr-EDTA complex as model system for exhaustive heavy metals abatement in wastewater". *GEI-ERA 2010*, September, 5-10 2010, Modena, Italy.
  - 53) A. Mattarei, L. Biasutto, N. Sassi, **C. Durante**, A. Gennaro, M. Carraro, M. Zoratti, C. Paradisi. "Redox properties of novel mitochondrion-targeted quercetin and resveratrol derivatives". *SISOC VIII, Spanish Italian Symposium on Organic Chemistry*, July 3-6, 2010, Padova, Italy.
  - 54) A. Mattarei, L. Biasutto, E. Marotta, S. Garbisa, M. Zoratti, **C. Durante**,G. Sandonà, A. Gennaro, C. Paradisi. "Novel mitochondrion-targeted Quercetin derivatives: synthesis, oxidation potentials, radical-scavenging properties and cytotoxicity". *Mac 09, EMBO Workshop on Mitochondria, Apoptosis and Cancer*. October 1-3 2009, Prague, Czech Republic.
  - 55) A. Mattarei, L. Biasutto, E. Marotta, S. Garbisa, M. Zoratti, **C. Durante**,G. Sandonà, A. Gennaro, C. Paradisi. "Novel mitochondrion-targeted Quercetin derivatives: synthesis, oxidation potentials, radical-scavenging

- properties and cytotoxicity”. *The Centenary, 100<sup>th</sup> anniversary of the Italian Chemical Society*. August 31-September 4, 2009, Padova, Italy.
- 56) A. Gennaro, **C. Durante**, A. A. Isse, M. Boarini, “Synthesis of arylcarboxylic acids by electrocatalytic reduction of bromobenzenes in the presence of CO<sub>2</sub>”. *ISE 2009, 60th Annual Meeting*, August 16-21, 2009, Beijing, China.
  - 57) A. Gennaro, **C. Durante**, A. A. Isse, M. Boarini, “Electrocarboxylation of bromobenzenes at Ag and Cu cathodes for the synthesis of functionalized benzoic acids”. *XXIII Congresso Nazionale S.C.I.*, July 5-10, 2009, Sorrento, Italy.
  - 58) A. A. Isse, G. Sandonà, **C. Durante**, A. Gennaro, “Reductive cleavage of polychloromethanes at catalytic and non-catalytic electrodes”. *XXIII Congresso Nazionale S.C.I.*, July 5-10, 2009, Sorrento, Italy.
  - 59) **C. Durante**, A. A. Isse, G. Sandonà, A. Gennaro, “Role of organic substances on the solubility and abatement of Cr(III) and Cr(VI)”. *XXIII Congresso Nazionale S.C.I.*, July 5-10, 2009, Sorrento, Italy.
  - 60) **C. Durante**, A. A. Isse, G. Sandonà, A. Gennaro, “Electrocatalytic hydrodehalogenation of polychloromethanes at silver cathodes”. *ISE 2008, 59th Annual Meeting*, September 7-12, 2008, Seville, Spain.
  - 61) **C. Durante**, A. A. Isse, G. Sandonà, A. Gennaro, “Electrochemical abatement of Cr(III) in genuine wastewater samples”. *ISE 2008, 59th Annual Meeting*, Seville, September 7-12, 2008, Seville, Spain.
  - 62) A. A. Isse, S. Gottardello, **C. Durante**, A. Gennaro “Electrocatalysis at metal cathodes and dissociative electron transfer mechanisms”. *ISE 2008, 59th Annual Meeting*, September 7-12, 2008, Seville, Spain.
  - 63) **C. Durante**, A. A. Isse, G. Sandonà, A. Gennaro, “Trattamenti elettrochimici di reflui da industria conciaria”, *GEI-ERA 2008*, Giugno 15-20 2008, Genova, Italy.
  - 64) A. Gennaro, A. A. Isse, **C. Durante**, G. Sandonà, “Electrocatalytic reduction of chlorinated volatile organic compounds”. *GEI-ERA 2007*, Luglio 14-19, 2007, Cagliari, Italy.
  - 65) **C. Durante**, S. Santi, A. Ceccon, A. Bisello, L. Orian, “The Effect of the Electronic Communication on the Physical Chemical Properties of Heterotrimetallic Complexes of Iron, Rhodium and Chromium”, *ICOMC 2006, (XXII international conference on Organometallic Chemistry)*, July 23-28, 2006, Zaragoza, Spain.
  - 66) A. Donoli, A. Ceccon, S. Santi, A. Bisello, L. Orian, **C. Durante**, “The Modulation of bridging ligand planarity in a new series of heterobimetallic Cp-indene based Fe/Cr complexes”, *ICOMC 2006, (XXII international conference on Organometallic Chemistry)*, July 23-28, 2006, Zaragoza, Spain.
  - 67) **C. Durante**, S. Santi, A. Ceccon, A. Bisello, L. Orian, F. Benetollo, “The Effect of the electronic Communication on the Physical Chemical Properties in Heteropolymetallic Ferrocenyl-Indenyl Complexes”, *5th ISOC (international school of organometallic chemistry)*, September 10-14 2005, Camerino, Italy,.
  - 68) F. Benetollo, A. Bisello, A. Ceccon, L. Crociani, **C. Durante**, P. Ganis, L. Orian, S. Santi Designing molecules for metal-metal electronic communication the heterobimetallic isomers [ $\eta^6$ -(2-ferrocenyl)-indene]-Cr(CO)<sub>3</sub> and [ $\eta^6$ -(3-ferrocenyl)-indene]-Cr(CO)<sub>3</sub>. *8th FIGIPAS Meeting in Inorganic Chemistry*, July 6-9, 2005, Athens, Greece.
  - 69) S. Santi, A. Ceccon, L. Orian, **C. Durante**, C. Lo Sterzo, M. T. Apicella, “Metal-to-metal intramolecular electron transfer through different  $\pi$ -spacers. The role of bridging ligand”. *207th Meeting of The Electrochemical society*, May 15-20, 2005, Quebec-City, Canada.

- 70) **C. Durante**, S. Santi, A. Ceccon, A. Bisello, L. Orian, “Electronic Communication in Heteropolymetallic Ferrocenyl-Indenyl Complexes”, *GEI-2004*, September 4-9, Padova, Italy
- 71) A. Ceccon, F. Benetollo, A. Bisello, L. Crociani, **C. Durante**, P. Ganis, L. Orian, S. Santi, “The Effect of Electronic Cooperativity on the Physico-Chemical Properties and the Ligand Substitution in Ferrocenyl-Indenyl-Cr(CO)<sub>3</sub> Complexes”, *ICOMC 2004 (XXI international conference on Organometallic Chemistry)*, July 25-30, 2004, Vancouver, Canada.
- 72) S. Santi, A. Ceccon, A. Bisello, L. Crociati, **C. Durante**, “Chemical Communication Induced by Intramolecular Electron Transfer in Heterobimetallic Ferrocenyl-Indenyl-Cr(CO)<sub>3</sub> Complexes”, *203rd Meeting –The Electrochemical-Society*, 27 April-2 May, 2003, Paris, France.