

Complete list of publications (19/09/2020 Scopus):

- Marrani, A. G.,* Motta, A., Palmieri, V., Perini, G., Papi, M., Dalchiele, E. A., Schrebler, R., Zonari, R.**
A compared experimental and theoretical study of the mechanism of graphene oxide mild reduction by ascorbic acid and N-acetyl cysteine for biomedical applications
(2020) *Materials Advances*, accepted
DOI: 10.1039/D0MA00456A
- Bagheri, Z., Matteocci, F., Lamanna, E., Di Girolamo, D., Marrani, A.G., Zonari, R., Di Carlo, A., Moshaii, A.**
Light-induced improvement of dopant-free PTAA on performance of inverted perovskite solar cells
(2020) *Solar Energy Materials and Solar Cells*, 215,110606
DOI: 10.1016/j.solmat.2020.110606
- Di Girolamo, D., Di Giacomo, F., Matteocci, F., Marrani, A.G., Dini, D., Abate, A.**
Progress, highlights and perspectives on NiO in perovskite photovoltaics
(2020) *Chemical Science*, 11(30), pp. 7746-7759
DOI: 10.1039/d0sc02859b
- Quartarone, E., Eisenmann, T., Kuenzel, M., Tealdi, C., Marrani, A. G., Brutti, S., Callegari, D., Passerini, S.**
Towards Advanced Sodium-Ion Batteries: Green, Low-Cost and High-Capacity Anode Compartment Encompassing Phosphorus/Carbon Nanocomposite as the Active Material and Aluminum as the Current Collector
(2020) *Journal of The Electrochemical Society*, 167(8),080509
DOI: 10.1149/1945-7111/ab856e
- Marrani, A.G.,* Coico, A.C., Giacco, D., Zonari, R., Motta, A., Schrebler, R., Dini, D., Di Girolamo, D., Dalchiele, E.A.**
Flexible Interfaces between Reduced Graphene Oxide and Indium Tin Oxide/Polyethylene Terephthalate for Advanced Optoelectronic Devices
(2019) *ACS Applied Nano Materials*, 2, 5963 - 5972
DOI: 10.1021/acsnm.9b01399
- Di Girolamo, D., Piccinni, M., Matteocci, F., Marrani, A.G., Zonari, R., Dini, D.**
Investigating the electrodeposition mechanism of anodically grown NiOOH films on transparent conductive oxides
(2019) *Electrochimica Acta*, 319, 175-184
DOI: 10.1016/j.electacta.2019.06.170
- Marrani, A.G.,* Motta, A., Schrebler, R., Zonari, R., Dalchiele, E.A.**
Insights from experiment and theory into the electrochemical reduction mechanism of graphene oxide
(2019) *Electrochimica Acta*, 304, 231-238
DOI: 10.1016/j.electacta.2019.02.108
- Palmieri, V., Dalchiele, E.A., Perini, G., Motta, A., De Spirito, M., Zonari, R., Marrani, A.G.,* Papi, M.**
Biocompatible N -acetyl cysteine reduces graphene oxide and persists at the surface as a green radical scavenger
(2019) *Chemical Communications*, 55, 4186-4189
DOI: 10.1039/c9cc00429g
- Marrani,* A. G., Bonomo, M., Dini, D.**
Adsorption Dynamics of Redox Active Species onto Polarized Surfaces of Sensitized NiO
(2019) *ACS Omega*, 4 (1) 1690-1699
DOI: 10.1021/acsomega.8b02543
- Gentile, A., Giacco, D., De Bonis, A., Teghil, R., Marrani, A.G., Brutti, S.**
Synergistic Electro-Catalysis of Pd/PdO Nanoparticles and Cr(III)-Doped NiCo2O4 Nanofibers in Aprotic Li-O2 Batteries
(2018) *Journal of The Electrochemical Society*, 165 (16) A3605-A3612
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- Giacco, D., Marrani, A.G., Brutti, S.**
Enhancement of the performance in Li-O2 cells of a NiCo2O4 based porous positive electrode by Cr(III) doping
(2018) *Materials Letters*, 224, 113-117
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- Marrani A.G.,* Coico A.C., Giacco D., Zonari R., Scaramuzza F.A., Schrebler R., Dini D., Bonomo M., Dalchiele E.A.**
Integration of graphene onto silicon through electrochemical reduction of graphene oxide layers in non-aqueous medium
(2018) *Applied Surface Science*, 445, 404-414
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- Carboni, M., Marrani,* A. G., Spezia, R., Brutti, S.**
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- Giacco, D., Carboni, M., Brutti, S., Marrani, A.G.***
Noticeable Role of TFSI⁻ Anion in the Carbon Cathode Degradation of Li-O2 Cells
(2017) *ACS Applied Materials and Interfaces*, 9, 31710-31720
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- Bonomo, M., Dini, D., Marrani, A. G., R. Zonari**
X-ray photoelectron spectroscopy investigation of nanoporous NiO electrodes sensitized with Erythrosine B
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- Vita, F., Bocchia, A., Marrani, A. G., Zonari, R., Rossi, F., Arduini, A., Secchi, A.**
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22. **Marrani, A.G., Carboni, M., Boccia, A., Galloni, P., Morpurgo, S., Zanoni, R.**
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23. **Caprioli, F., Marrani, A. G., Di Castro, V.**
Tuning the composition of aromatic binary Self-Assembled Monolayers on copper: an XPS study (2014) *Applied Surface Science*, 303, pp. 30-36.
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24. **Marrani, A.G., Novelli, V., Sheehan, S., Dowling, D., Dini, D.**
Probing the redox states at the surface of electroactive nanoporous NiO thin films (2014) *ACS Applied Materials & Interfaces*, 6, pp. 143-152.
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25. **Marrani, A.G., Caprioli, F., Boccia, A., Zanoni, R., Decker, F.**
Electrochemically deposited ZnO films: an XPS study on the evolution of their surface hydroxide and defect composition upon thermal annealing (2014) *Journal of Solid State Electrochemistry*, 18, pp. 505-513.
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26. **Vecchi, A., Grippo, V., Floris, B., Marrani, A.G., Conte, V., Galloni, P.**
 π -Interactions as a tool for an easy deposition of meso-tetraferrocenylporphyrin on surfaces (2013) *New Journal of Chemistry*, 37, pp. 3535-3542.
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27. **Boccia, A., D'Orazi, F., Carabelli, E., Bussolati, R., Arduini, A., Secchi, A., Marrani, A.G., Zanoni, R.**
Assembly of Gold Nanoparticles on Functionalized Si(100) Surfaces through Pseudorotaxane Formation (2013) *Chemistry – A European Journal*, 19, pp. 7999-8006.
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28. **Boccia, A., Lanzilotto, V., Marrani, A.G., Stranges, S., Zanoni, R., Alagia, M., Fronzoni, G., Declève, P.**
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30. **Caprioli, F., Decker, F., Marrani, A.G., Beccari, M., Di Castro, V.**
Copper protection by self-assembled monolayers of aromatic thiols in alkaline solutions (2010) *Physical Chemistry Chemical Physics*, 12 (32), pp. 9230-9238.
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31. **Marrani, A.G., Cattaruzza, F., Decker, F., Galloni, P., Zanoni, R.**
Chemical routes to fine tuning the redox potential of monolayers covalently attached on H-Si(1 0 0) (2010) *Electrochimica Acta*, 55 (20), pp. 5733-5740.
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32. **Marrani, A.G., Cattaruzza, F., Decker, F., Zanoni, R., Cossi, M., Iozzi, M.F.**
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33. **Nemykin, V.N., Rohde, G.T., Barrett, C.D., Hadt, R.G., Bizzarri, C., Galloni, P., Floris, B., Nowik, I., Herber, R.H., Marrani, A.G., Zanoni, R., Loim, N.M.**
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34. **Marrani, A.G., Cattaruzza, F., Decker, F., Galloni, P., Zanoni, R.**
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35. **Boccia, A., Decker, F., Marrani, A.G., Stranges, S., Zanoni, R., Cossi, M., Iozzi, M.F.**
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36. **Zanoni, R., Cossi, M., Iozzi, M.F., Cattaruzza, F., Dalchiele, E.A., Decker, F., Marrani, A.G., Valori, M.**
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37. **Nemykin, V.N., Galloni, P., Floris, B., Barrett, C.D., Hadt, R.G., Subbotin, R.I., Marrani, A.G., Zanoni, R., Loim, N.M.**
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39. **Marrani, A.G., Dalchiele, E.A., Zanoni, R., Decker, F., Cattaruzza, F., Bonifazi, D., Prato, M.**
Functionalization of Si(1 0 0) with ferrocene derivatives via "click" chemistry (2008) *Electrochimica Acta*, 53 (11), pp. 3903-3909.
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40. **Cattaruzza, F., Llanes-Pallas, A., Marrani, A.G., Dalchiele, E.A., Decker, F., Zanoni, R., Prato, M., Bonifazi, D.**
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42. **Zanoni, R., Aurora, A., Cattaruzza, F., Coluzza, C., Dalchiele, E.A., Decker, F., Di Santo, G., Flamini, A., Funari, L., Marrani, A.G.**
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List of Conference Proceedings (Scopus)

1. **Cattaruzza, F., Llanes-Pallas, A., Marrani, A. G., Dalchiele, E.A., Decker, F., Zanoni, R., Prato, M., Bonifazi, D.**
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2. **Bocchia, A., Marrani, A.G., Stranges, S., Zanoni, R., Alagia, M., Iozzi, M.F., Cossi, M.**
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List of Errata (Scopus)

1. **Bocchia, A., Marrani, A.G., Stranges, S., Zanoni, R., Alagia, M., Cossi, M., Iozzi, M.F.**
Erratum: Publisher's Note: Symmetry breaking effect in the ferrocene electronic structure by hydrocarbon-monosubstitution: An experimental and theoretical study
(2008) *Journal of Chemical Physics*, 128 (15), art. no. 154315, .
DOI: 10.1063/1.2898498

List of Duplicates (Scopus)

1. **Nemykin, V.N., Galloni, P., Floris, B., Barrett, C.D., Hadt, R.G., Subbotin, R.I., Marrani, A.G., Zanoni, R., Loim, N.M.**
Metal-free and transition-metal tetraferrocenylporphyrins part 1: Synthesis, characterization, electronic structure, and conformational flexibility of neutral compounds
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