

Complete list of publications (17/02/2025 Scopus):

1. **Atanasio, P., Zampiva, R. Y., Buccini, L., Di Conzo, C., Proietti, A., Mura, F., Aurora, A., Marrani, A. G., Passeri, D., Rossi, M., Pasquali, M., Scaramuzzo, F. A.**
Graphene Quantum Dots from Agricultural Wastes: Green Synthesis and Advanced Applications for Energy Storage
(2024) *Molecules* 29, 5666
10.3390/molecules29235666
2. **Halfadjji, A., Bennabi, L., Giannakis, S., Marrani, A. G., Bellucci, S.**
Sono-synthesis and characterization of next-generation antimicrobial ZnO/TiO₂ and Fe₃O₄/TiO₂ bi-nanocomposites, for antibacterial and antifungal applications
(2024) *Ceramics International* 50, 39097 – 39108
10.1016/j.ceramint.2024.07.276
3. **Tiberio, F., Amato, F., Desiderio, C., Vincenzoni, F., Perini, G., Moretti, I., Augello, A., Friggeri, G., Cui, L., Giaccari, L., Salvati, M., Polito, L., Parolini, O., De Spirito, M., Marrani, A. G., Lattanzi, W., Papi, M., Di Pietro, L., Palmieri, V.**
The osteoconductive properties of graphene-based material surfaces are finely tuned by the conditioning layer and surface chemistry
(2024) *Materials Advances* 5, 4772-4785
10.1039/d4ma00144c
4. **Sturabotti, E., Camilli, A., Moldoveanu, V. G., Bonincontro, G., Simonetti, G., Valletta, A., Serangeli, I., Miranda, E., Amato, F., Marrani, A. G., Migneco, L. M., Sennato, S., Simonis, B., Vetica, F., Leonelli, F.**
Targeting the Antifungal Activity of Carbon Dots against *Candida albicans* Biofilm Formation by Tailoring Their Surface Functional Groups
(2024) *Chemistry - A European Journal* 30(18), e202303631
10.1002/chem.202303631
5. **Friggeri, G., Moretti, I., Amato, F., Marrani, A.G., Scandra, F., Colombarolli, S.G., Vitali, A., Viscuso, S., Augello, A., Cui, L., Perini, G., De Spirito, M.**
Multifunctional scaffolds for biomedical applications: Crafting versatile solutions with polycaprolactone enriched by graphene oxide
(2024) *APL Bioengineering* 8, 016115
10.1063/5.0184933
6. **Schiavi, P.G., Marrani, A.G., Russina, O., D'Annibale, L., Amato, F., Pagnanelli, F., Altimari, P.**
Aqueous electrochemical delithiation of cathode materials as a strategy to selectively recover lithium from waste lithium-ion batteries
(2024) *Journal of Energy Chemistry* 88, pp. 144-153
10.1016/j.jechem.2023.09.040
7. **Gnilitskiy, I., Bellucci, S., Marrani, A.G., Shepida, M., Mazur, A., Zozulya, G., Kordan, V., Babzhetskyy, V., Sahraoui, B., Kuntiy, O.**
Femtosecond laser-induced nano- and microstructuring of Cu electrodes for CO₂ electroreduction in acetonitrile medium
(2023) *Scientific Reports* 13(1),8837
10.1038/s41598-023-35869-z
8. **Amato, F., Ferrari, I., Motta, A., Zaroni, R., Dalchiele, E.A., Marrani, A.G.**
Assessing the evolution of oxygenated functional groups on the graphene oxide surface upon mild thermal annealing in water
(2023) *RSC Advances* 13(42), pp. 29308-29315
10.1039/d3ra05083a
9. **Amato, F., Perini, G., Friggeri, G., Augello, A., Motta, A., Giaccari, L., Zaroni, R., De Spirito, M., Palmieri, V., Marrani, A.G., Papi, M.**
Unlocking the Stability of Reduced Graphene Oxide Nanosheets in Biological Media via Use of Sodium Ascorbate
(2023) *Advanced Materials Interfaces* 10(22),2300105
10.1002/admi.202300105
10. **Hajareh Haghghi, F., Binaymottagh, R., Chronopoulou, L., Cerra, S., Marrani, A.G., Amato, F., Palocci, C., Fratoddi, I.**
Self-Assembling Peptide-Based Magnetogels for the Removal of Heavy Metals from Water
(2023) *Gels* 9(8),621
10.3390/gels9080621
11. **Giacco, D., Skála, T., Brutti, S., Marrani, Andrea G.**
Chromium-Doped Nickel Cobaltite Nanoneedles as a Cathodic Material for Li-O₂ Cells: An X-ray Photoemission and Photoabsorption Spectroscopy Investigation
(2023) *ACS Applied Nano Materials* 6(12), pp. 10178-10190
10.1021/acsnm.3c01087
12. **Palmieri, V., Amato, F., Marrani, A.G., Friggeri, G., Perini, G., Augello, A., De Spirito, M., Papi, M.**
Graphene oxide-mediated copper reduction allows comparative evaluation of oxygenated reactive residues exposure on the materials surface in a simple one-step method
(2023) *Applied Surface Science* 615,156315
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13. **Ferrari, I., Motta, A., Zaroni, R., Scaramuzzo, F.A., Amato, F., Dalchiele, E.A., Marrani, A.G.**
Understanding the nature of graphene oxide functional groups by modulation of the electrochemical reduction: A combined experimental and theoretical approach
(2023) *Carbon* 203, pp. 29-38
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14. **Amato, F., Motta, A., Giaccari, L., Di Pasquale, R., Scaramuzzo, F.A., Zaroni, R., Marrani, A.G.**
One-pot carboxyl enrichment fosters water-dispersibility of reduced graphene oxide: a combined experimental and theoretical assessment
(2023) *Nanoscale Advances* 5(3), pp. 893-906
10.1039/d2na00771a
15. **Pettazzoni, L., Leonelli, F., Marrani, A.G., (...), Di Lisio, V., Martinelli, A.**
Self-Healing and Reprocessable Oleic Acid-Based Elastomer with Dynamic S-S Bonds as Solvent-Free Reusable Adhesive on Copper Surface
(2022) *Polymers*, 14(22),4919
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16. **Binaymottagh, R., Del Giudice, A., Mignardi, S., Amato, F., Marrani, A. G., Sivori, F., Cavallo, I., Di Domenico, E. G., Palocci, C., Chronopoulou, L.**
Green In Situ Synthesis of Silver Nanoparticles-Peptide Hydrogel Composites: Investigation of Their Antibacterial Activities
(2022) *Gels*, 8(11),700
10.3390/gels8110700
17. **Schiavi, P.G., Altimari, P., Sturabotti, E., Marrani, A.G., Simonetti, G., Pagnanelli, F.**
Decomposition of Deep Eutectic Solvent Aids Metals Extraction in Lithium-Ion Batteries Recycling
(2022) *ChemSusChem*
10.1002/cssc.202200966
18. **Marrani, A.G.,* Motta, A., Amato, F., Schrebler, R., Zaroni, R., Dalchiele, E. A.**
Effect of electrolytic medium on the electrochemical reduction of graphene oxide on Si(111) as probed by XPS
(2022) *Nanomaterials*, 12(1),43
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19. **Bonomo, M., Ekoi, E.J., Marrani, A.G., Segura Zarate, A. Y., Dowling, D.P., Barolo, C., Dini, D.**
NiO/ZrO₂nanocomposites as photocathodes of tandem DSCs with higher photoconversion efficiency with respect to parent single-photoelectrode p-DSCs
(2021) *Sustainable Energy and Fuels*, 5(18), pp. 4736-4748
DOI: 10.1039/d1se00566a
20. **Marrani, A. G.,* Motta, A., Palmieri, V., Perini, G., Papi, M., Dalchiele, E. A., Schrebler, R., Zaroni, R.**

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21. **Bagheri, Z., Matteocci, F., Lamanna, E., Di Girolamo, D., Marrani, A.G., Zanoni, R., Di Carlo, A., Moshai, 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
 22. **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
 23. **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
 24. **Marrani, A.G.,* Coico, A.C., Giacco, D., Zanoni, 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
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 25. **Di Girolamo, D., Piccinni, M., Matteocci, F., Marrani, A.G., Zanoni, 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
 26. **Marrani, A.G.,* Motta, A., Schrebler, R., Zanoni, R., Dalchiele, E.A.**
Insights from experiment and theory into the electrochemical reduction mechanism of graphene oxide
(2019) *Electrochimica Acta*, 304, 231-238
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 27. **Palmieri, V., Dalchiele, E.A., Perini, G., Motta, A., De Spirito, M., Zanoni, R., Marrani, A.G.,* Papi, M.**
Biocompatible N -acetyl cysteine reduces graphene oxide and persists at the surface as a green radical scavenger
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 28. **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
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 29. **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
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(2018) *Materials Letters*, 224, 113-117
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 31. **Marrani A.G.,* Coico A.C., Giacco D., Zanoni 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
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47. **Boccia, A., Lanzilotto, V., Marrani, A.G., Stranges, S., Zononi, R., Alagia, M., Fronzoni, G., Declava, P.**
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53. **Marrani,* A.G., Cattaruzza, F., Decker, F., Galloni, P., Zononi, R.**
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55. **Zononi, R., Cossi, M., Iozzi, M.F., Cattaruzza, F., Dalchiele, E.A., Decker, F., Marrani, A.G., Valori, M.**
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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. **Boccia, A., Marrani, A.G., Stranges, S., Zanoni, R., Alagia, M., Iozzi, M.F., Cossi, M.**
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List of Errata (Scopus)

1. **Boccia, 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, .
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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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