

## Publications

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1. "Understanding the nature of graphene oxide functional groups by modulation of the electrochemical reduction: a combined experimental and theoretical approach"  
I. Ferrari, A. Motta, R. Zanoni, F. A. Scaramuzzo, **F. Amato**, E. A. Dalchiele, A. G. Marrani, *Carbon* **2023**, *203*, 29.
2. "Self-Healing and Reprocessable Oleic Acid-Based Elastomer with Dynamic S-S Bonds as Solvent-Free Reusable Adhesive on Copper Surface"  
L. Pettazoni, F. Leonelli, A. G. Marrani, L. M. Migneco, F. Vetica, L. Celio, V. Napoleone, S. Alfano, A. Colecchia, **F. Amato**, V. Di Lisio, A. Martinelli, *Polymers* **2022**, *14*(22), 4919.
3. "Green In Situ Synthesis of Silver Nanoparticles-Peptide Hydrogel Composites: Investigation of Their Antibacterial Activities"  
R. Binaymotlagh, A. Del Giudice, S. Mignardi, **F. Amato**, A. G. Marrani, F. Sivori, I. Cavallo, E. G. Di Domenico, C. Palocci, L. Chronopoulou, *Gels* **2022**, *8*, 700.
4. "Efficient and Stable Perovskite Solar Cells Based on Nitrogen-Doped Carbon Nanodots"  
S. Collavini, **F. Amato**, A. Cabrera-Espinoza, F. Arcudi, L. Đorđević, I. Kosta, M. Prato, J. L. Delgado, *Energy Technol.* **2022**, *10*, 2101059.
5. "Transfer of Axial Chirality to the Nanoscale Endows Carbon Nanodots with Circularly Polarized Luminescence"  
S. Di Noja, **F. Amato**, F. Zinna, L. Di Bari, G. Ragazzon, M. Prato, *Angew. Chem. Int. Ed.* **2022**, *61*, e202202397.
6. "Nuclear Magnetic Resonance Reveals Molecular Species in Carbon Nanodot Samples Disclosing Flaws"  
B. Bartolomej, A. Bogo, **F. Amato**, G. Ragazzon, M. Prato, *Angew. Chem. Int. Ed.* **2022**, *61*, e202200038.
7. "Effect of Electrolytic Medium in the Electrochemical Reduction of Graphene Oxide on Si(111) as Probed by XPS"  
G. Marrani, A. Motta, **F. Amato**, R. Schrebler, R. Zanoni, E. A. Dalchiele, *Nanomaterials* **2022**, *12*, 43.
8. "Agarose-Based Fluorescent Waveguide with Embedded Silica Nanoparticle-Carbon Nanodot Hybrids for pH Sensing"  
**F. Amato**, M. C. Prado Soares, T. Destri Cabral, E. Fujiwara, C. Monteiro de Barros Cordeiro, A. Criado, M. Prato, J. R. Bartoli, *ACS Appl. Nano Mater.* **2021**, *4*, 9738-9751.

9. "Mapping the Surface Groups of Amine-Rich Carbon Dots Enables Covalent Catalysis in Aqueous Media"  
G. Filippini, **F. Amato**, C. Rosso, G. Ragazzon, A. Vega-Peñaloza, X. Companyó, L. Dell'Amico, M. Bonchio, M. Prato, *Chem*, **2020**, *6*, 3022-3037.
10. "Nitrogen-doped Carbon Nanodots/PMMA Nanocomposites for Solar Cells Applications"  
**F. Amato**, M. Cacioppo, F. Arcudi, M. Prato, M. Mituo, E. G. Fernandes, M. N. P. Carreño, I. Pereyra, J. R. Bartoli, *Chem. Eng. Trans.* **2019**, *74*, 1105-1110.
11. "Luminescence Efficiency of Si/SiO<sub>2</sub> Nanoparticles Produced by Laser Ablation"  
M. Cannas, P. Camarda, L. Vaccaro, **F. Amato**, F. Messina, T. Fiore, S. Agnello, F. M. Gelardi, *Phys. Status Solidi A* **2019**, *216*, 1800565.
12. "Enhancing the luminescence efficiency of silicon-nanocrystals by interaction with H<sup>+</sup> ions"  
M. Cannas, P. Camarda, L. Vaccaro, **F. Amato**, F. Messina, T. Fiore, M. Li Vigni, *Phys. Chem. Chem. Phys.* **2018**, *20*, 10445-10449.
13. "Inkjet printing Ag nanoparticles for SERS hot spots"  
C. Miccichè, G. Arrabito, **F. Amato**, G. Buscarino, S. Agnello, B. Pignataro, *Anal. Methods* **2018**, *10*, 3215-3223.
14. "Ag nanoparticles agar gel nanocomposites for SERS detection of cultural heritage interest pigments"  
F. Amato, C. Miccichè, M. Cannas, F. M. Gelardi, B. Pignataro, M. Li Vigni, S. Agnello, *Eur. Phys. J. Plus* **2018**, *133*, 74.

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