

CURRICULUM VITAE

Lorenzo Caputi

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Native language:

Italian

Other Languages:

English (excellent), Spanish (excellent), French (good)

Education:

Laurea degree *cum laude* (Physics) at University of Calabria, 1980

Current Academic Position:

Associate Professor, Department of Physics of the University of Calabria

Other Current Academic Positions:

- Head of the Surface Nanoscience Research Group (Department of Physics, University of Calabria)
- Delegate of the Rector for the relations with Dominican Republic, Cuba and Costa Rica
- Member of the Internationalization Board of the University of Calabria
- Director of the Didactic/Scientific Pole of the University of Calabria in the Universidad de Oriente (Santiago de Cuba)
- Head of the UNICARIBE Research Center

Previous Academic Positions Held:

1983-1999: Assistant Professor, Department of Physics, University of Calabria

Teaching:

Department of Physics, University of Calabria
Department of Computer, Modeling, Electronics and Systems Engineering (DIMES)

Actual scientific interests:

Electronic and structural properties of surfaces
Synthesis and characterization of carbon-based nanomaterials
Development of innovative energy storage devices
Characterization of nanostructures by electron spectroscopies and by scanning probe microscopies.

97 Peer-reviewed publications

1 US Patent

List of recent publication and patents

Evidence of massless Dirac fermions in graphitic shells encapsulating hollow iron microparticles

Scarcello, A., Alessandro, F., Arias Polanco, M., ...Curcio, E., Caputi, L.S.

Applied Surface Science, 2021, 546, 149103

The liquid exfoliation of graphene in polar solvents

Vacacela Gomez, C., Guevara, M., Tene, T., ...Bellucci, S., Caputi, L.S.

Applied Surface Science, 2021, 546, 149046

Positive manganese lithium oxide-stabilised electrode for a secondary lithium battery and a method for producing same

M Arias, L Caputi, I Martinez, P Santana, N Upia

US Patent App. 16/975,177

Porous carbon materials obtained by the hydrothermal carbonization of orange juice

Veltri, F., Alessandro, F., Scarcello, A., ...Giordano, G., Caputi, L.S.

Nanomaterials, 2020, 10(4), 655

The adsorption of methylene blue on eco-friendly reduced graphene oxide

Arias, F.A., Guevara, M., Tene, T., ...Arias, M., Caputi, L.S.

Nanomaterials, 2020, 10(4), 681

Dispersion of graphene in ethanol by sonication

M Cayambe, C Zambrano, T Tene, M Guevara, GT Usca, H Brito, ...

Materials Today: Proceedings

Toward large-scale production of oxidized graphene

Tene, T., Usca, G.T., Guevara, M., ...Caputi, L.S., Gomez, C.V.

Nanomaterials, 2020, 10(2), 279

Zeolite-assisted shear exfoliation of graphite into few-layer graphene

Usca, G.T., Gomez, C.V., Guevara, M., ...Miriello, D., Caputi, L.S.

Crystals, 2019, 9(8), 377

DFT study on electronic properties of single- and double-shell icosahedral fullerenes

De Luca, G., Basantes Valverde, M., Morrone, M., Caputi, L.S.

International Journal of Quantum Chemistry, 2019, 119(10), e25890

Broadband excitation spectrum of bulk crystals and thin layers of PtTe₂

Ghosh, B., Alessandro, F., Zappia, M., ...Agarwal, A., Cupolillo, A.

Physical Review B, 2019, 99(4), 045414

Selective synthesis of turbostratic polyhedral carbon nano-onions by arc discharge in water

Alessandro, F., Scarcello, A., Basantes Valverde, M.D., ...Spinella, C., Caputi, L.S.

Nanotechnology, 2018, 29(32), 325601

Tribological behavior of AA1050H24-graphene nanocomposite obtained by friction stir processing

Fernandez, J.B., Macias, E.J., Muro, J.C.S.-D., ...Roca, A.S., Fals, H.D.C.

Metals, 2018, 8(2), 113

Interband π -like plasmon in silicene grown on silver

Sindona, A., Cupolillo, A., Alessandro, F., ...Osman, S.M., Caputi, L.S.

Physical Review B, 2018, 97(4), 041401

Comparision of pure membranes of 13X and 5A zeolite for removal of acridine orange dye from aqueous solutions

Coello-Fiallos, D.C., Espin-Lagos, S.M., Vacacela Gomez, C., Tavoraro, A., Caputi, L.S.
Periodico Tche Quimica, 2018, 15(29), pp. 251–256