



## Personal information

Name: Giuseppe Lazzara  
Location: Palermo, IT  
AICAT member since: 2003



**Position:** Associate Professor of Physical Chemistry

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**ResearcherID** O-3356-2013

**Scopus** 6602777267

**Education and position:** He received his PhD degree, University of Palermo, Italy, in 2007 on "Thermodynamic and Structural Studies for the Solubilization of Hydrophobic Additives in Microstructured Systems." Lazzara became "Ricercatore" at University of Palermo in 2008. He was Postdoc at the Chemistry Department, Lund University (Sweden) in 2009-2010. Lazzara became "Associate Professor" at University of Palermo in 2015.

**Main fields of interest:** Physico-Chemical characterization of nanoparticles and polymer/nanoparticle interactions. Nanoclays and in particular halloysite nanotubes for drug delivery, conservation of cultural heritage, bioplastics and remediation technologies.

**Methods:** Thermogravimetric Analysis (TGA), Differential Scanning Calorimetry (DSC), Dynamic Mechanical Analysis (DMA), Isothermal Titration Calorimetry (ITC).

**Professional activities:** Member of the Editorial Board of Applied Science (MDPI); Associate editor for Applied Clay Science (Elsevier).

**Publication record Scopus** (February 2019): documents (129), citations (2970), *h*-index (33)

**Equipments:** Thermogravimetric analyses: Q5000 IR (TA Instruments); Isothermal Titration Calorimetry: ultrasensitive nano-ITC200 (MicroCal); Differential scanning calorimetry: micro-DSC III (SETARAM); Differential scanning calorimetry: 2920 CE (TA Instrument); Dynamic mechanical analysis: DMA Q800 (TA Instruments) with Humidity controlled chamber; Density and Sound Velocity Meter: DSA 5000 M (Anton Paar).

### 5 most important publications:

Lazzara, G.; Cavallaro, G.; Panchal, A.; Fakhrullin, R.; Stavitskaya, A.; Vinokurov, V.; Lvov, Y. An Assembly of Organic-Inorganic Composites Using Halloysite Clay Nanotubes. *Current Opinion in Colloid & Interface Science* **2018**, *35*, 42–50. <https://doi.org/10.1016/j.cocis.2018.01.002>.

Cavallaro, G.; Milioto, S.; Parisi, F.; Lazzara, G. Halloysite Nanotubes Loaded with Calcium Hydroxide: Alkaline Fillers for the Deacidification of Waterlogged Archeological Woods. *ACS Appl. Mater. Interfaces* **2018**, *10* (32), 27355–27364. <https://doi.org/10.1021/acsami.8b09416>.

Makaremi, M.; Pasbakhsh, P.; Cavallaro, G.; Lazzara, G.; Aw, Y. K.; Lee, S. M.; Milioto, S. Effect of Morphology and Size of Halloysite Nanotubes on Functional Pectin Bionanocomposites for Food Packaging Applications. *ACS Appl. Mater. Interfaces* **2017**, *9* (20), 17476–17488. <https://doi.org/10.1021/acsami.7b04297>.

Bertolino, V.; Cavallaro, G.; Lazzara, G.; Milioto, S.; Parisi, F. Biopolymer-Targeted Adsorption onto Halloysite Nanotubes in Aqueous Media. *Langmuir* **2017**, *33* (13), 3317–3323. <https://doi.org/10.1021/acs.langmuir.7b00600>.

Cavallaro, G.; Grillo, I.; Gradzielski, M.; Lazzara, G. Structure of Hybrid Materials Based on Halloysite Nanotubes Filled with Anionic Surfactants. *J. Phys. Chem. C* **2016**, *120* (25), 13492–13502. <https://doi.org/10.1021/acs.jpcc.6b01282>.