



Personal information

Name: Catauro Michelina
Location: Aversa (CE), IT
AICAT member since: 1992



Position: Associated Professor of Chemistry (CHIM/07)

Affiliation: Department of Engineering (DI), University of Campania "Luigi Vanvitelli", Via Roma, 29 – 81031 Aversa (CE).



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Education and positions: Degree in Chemistry - University of Naples "Federico II" (1991); PhD on Materials Technology and Industrial Plants (VII) - Department of Materials Engineering and Production of the University of Naples "Federico II"; University Researcher in Chemistry at the Faculty of Engineering of the University of Naples "Federico II" (1995); From 2005 to now Associate Professor – Department of Engineering, University of Campania "Luigi Vanvitelli"

Main fields of interest: Sol-gel chemistry; Biomaterials; Bioglass; Biosensors; Organic Inorganic Hybrid Materials; Study of the materials' thermal behavior; Dip Coatings; Geopolymers; FTIR spectroscopy;

Methods: Thermogravimetry; Differential scanning calorimetry (DSC); differential thermal analysis (DTA); Isoconversional Kinetic Analysis.

Professional activities: Member of the Editorial Board of the following International journals: - *Molecules* - Sections: Materials Chemistry – MDPI; - *Advances in Materials Science and Engineering* – Hindawi; - *Material Science and Engineering Journal* - Remedy Publications; - *Journal of Bone Research and Reports*

Publication record (as of December 2018): 136 peer-reviewed papers, 4 book chapters, citations 2001, *h*-index: 29

Equipments: Nano Flach LFA 447 – Netzsch (Macchina per la misura della diffusività termica dei materiali con lampada allo Xeon e termografo con raffreddamento ad azoto liquido); Termografo FLIR; Flash DSC

5 most important publications:

Catauro, M., Bollino, F., Tranquillo, E., Tuffi, R., Dell'Era, A., Cipriotti, S. Vecchio. Morphological and thermal characterization of zirconia/hydroxyapatite composites prepared via sol-gel for biomedical applications. *Ceramics International* (2019), vol. 45, p. 2835-2845, ISSN: 0272-8842, doi: 10.1016/j.ceramint.2018.07.292

Catauro, Michelina, Tranquillo, Elisabetta, Dell'Era, Alessandro, Tuffi, Riccardo, Vecchio Cipriotti, Stefano. Thermal behavior and structural study of ZrO₂/poly(ϵ -caprolactone) hybrids synthesized via sol-gel route. *Ceramics International* (2019), vol. 45, p. 2771-2778, ISSN: 0272-8842, doi: 10.1016/j.ceramint.2018.07.300

Catauro, Michelina, Tranquillo, Elisabetta, Risoluti, Roberta, Cipriotti, Stefano Vecchio. Sol-Gel synthesis, spectroscopic and thermal behavior study of SiO₂/PEG composites containing different amount of chlorogenic acid. *Polymers* (2018), vol. 10, ISSN: 2073-4360, doi: 10.3390/polym10060682

Catauro Michelina, Bollino Flavia, Dell'Era Alessandro, Cipriotti Stefano Vecchio. Pure Al₂O₃·2SiO₂ synthesized via a sol-gel technique as a raw material to replace metakaolin: Chemical and structural characterization and thermal behavior. *Ceramics International* (2016), vol. 42, p. 16303-16309, ISSN: 0272-8842, doi: 10.1016/j.ceramint.2016.07.179

Catauro M, Renella RA, Papale F, Vecchio Cipriotti S. Investigation of bioactivity, biocompatibility and thermal behavior of sol-gel silica glass containing a high PEG percentage. *Materials Science and Engineering. C, Biomimetic Materials, Sensors and Systems* (2016), vol. 61, p. 51-55, ISSN: 0928-4931, doi: 10.1016/j.msec.2015.11.077