

# Curriculum vitae Dr. Gabriel Maria Ingo

Affiliation: Istituto per lo Studio dei Materiali Nanostrutturati-Consiglio Nazionale delle Ricerche

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## Short CV

Senior Scientist at the Istituto per lo Studio dei Materiali Nanostrutturati del Consiglio Nazionale delle Ricerche, Italy (ISMN-CNR, [www.ismn.cnr.it](http://www.ismn.cnr.it)).

Dr. Ingo's background and experience lie in Materials Chemistry. He has been involved into the surface chemical-physical study of materials of technological interest such as innovative optoelectronic and semiconducting materials, sensors and microsystems, advanced metal and ceramic materials for technological applications including aerospace industry and materials for jewellery production.

Other area of interest includes the identification of degradation mechanisms occurring in ancient metal and ceramic artefacts. In this latter field, the attention of dr. Ingo is devoted to the study of:

- the study of ancient extractive metallurgy and manufacturing processes;
- the study of degradation phenomena such as corrosion and ageing of ancient works of art;
- the designs and evaluation of effectiveness of innovative tailored methods and materials for conservation;
- the identification of fake artefacts.

Dr. Ingo was and is scientific responsible of Italian and European projects (also as Coordinator, V and VI FP) finalised to produce innovative equipments for the study of degradation phenomena and to identify the best tailored strategies to stop degradation and corrosion phenomena occurring in ancient metal artefacts. Dr. Ingo is author of about 100 papers published on international magazines and of more than 60 papers published on proceedings of international conference.

## The most recent publications are listed below

Title: [Multi photon excitation fluorescence imaging microscopy for the precise characterization of corrosion layers in silver-based artifacts](#)

Author(s): Faraldi, F.; Tserevelakis, G. J.; Filippidis, G.; et al.

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 111 Issue: 1 Pages: 177-181 DOI: 10.1007/s00339-013-7548-z Published: APR 2013

Title: [Ultra Hydrophobic/Superhydrophilic Modified Cotton Textiles through Functionalized Diamond-Like Carbon Coatings for Self-Cleaning Applications](#)

Author(s): Caschera, Daniela; Cortese, Barbara; Mezzi, Alessio; et al.

Source: LANGMUIR Volume: 29 Issue: 8 Pages: 2775-2783 DOI: 10.1021/la305032k Published: FEB 26 2013

Title: [Highly efficient photoanodes for dye solar cells with a hierarchical meso-ordered structure](#)

Author(s): De Marco, Luisa; Di Carlo, Gabriella; Giannuzzi, Roberto; et al.

Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 15 Issue: 39 Pages: 16949-16955 DOI: 10.1039/c3cp53344a Published: 2013

Title: [Effect of Ti and Al addition via direct synthesis to SBA-15 as support for cobalt based Fischer-Tropsch catalysts](#)

Author(s): Lualdi, Matteo; Di Carlo, Gabriella; Logdberg, Sara; et al.

Source: APPLIED CATALYSIS A-GENERAL Volume: 443 Pages: 76-86 DOI: 10.1016/j.apcata.2012.07.026 Published: NOV 7 2012

Title: [Investigation of the benzotriazole inhibition mechanism of bronze disease](#)

Author(s): Mezzi, A.; Angelini, E.; De Caro, T.; et al.

Source: SURFACE AND INTERFACE ANALYSIS Volume: 44 Issue: 8 Special Issue: SI Pages: 968-971 DOI: 10.1002/sia.4841 Published: AUG 2012

Title: [Chitosan Stabilized Gold Nanoparticle-Modified Au Electrodes for the Determination of Polyphenol Index in Wines: a Preliminary Study](#)

Author(s): Curulli, Antonella; Di Carlo, Gabriella; Ingo, Gabriel M.; et al.

Source: ELECTROANALYSIS Volume: 24 Issue: 4 Special Issue: SI Pages: 897-904 DOI: 10.1002/elan.201100583 Published: APR 2012

Title: [Green Synthesis of Gold-Chitosan Nanocomposites for Caffeic Acid Sensing](#)

Author(s): Di Carlo, Gabriella; Curulli, Antonella; Toro, Roberta G.; et al.

Source: LANGMUIR Volume: 28 Issue: 12 Pages: 5471-5479 DOI: 10.1021/la204924d Published: MAR 27 2012

Title: [One-step substrate nanofabrication and patterning of nanoparticles by lithographically controlled etching](#)

Author(s): Bianchi, M.; Herrero, D. Limones; Valle, F.; et al.

Source: NANOTECHNOLOGY Volume: 22 Issue: 35 Article Number: 355301 DOI: 10.1088/0957-4484/22/35/355301 Published: SEP 2 2011

Title: [Chemical aspects of plasma spraying of zirconia-based thermal barrier coatings \(vol 56, pg 5177, 2008\)](#)

Author(s): Ingo, Gabriel Maria; de Caro, Tilde

Source: ACTA MATERIALIA Volume: 59 Issue: 4 Pages: 1847-1847 DOI: 10.1016/j.actamat.2010.10.018 Published: FEB 2011

Title: [Novel route to high-yield synthesis of sp<sup>2</sup>-hybridized boron nitride nanoplates on stainless steel](#)

Author(s): Ingo, Gabriel Maria; Padeletti, Giuseppina; de Caro, Tilde; et al.

Source: JOURNAL OF MATERIALS CHEMISTRY Volume: 21 Issue: 28 Pages: 10268-10272 DOI: 10.1039/c1jm11185j Published: 2011