

CURRICULUM VITAE SCIENTIFICO PROFESSIONALE

Anna Lo Grasso

Nome: Anna;

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Titoli di studio

- Dottorato di ricerca in Smart Industry conseguito il 03/03/2023 presso l'Università di Pisa con una tesi dal titolo *Development and validation of mathematical physical/chemical models for sensory systems*.
- Laurea Magistrale in Matematica conseguita il 21/10/2016 presso l'Università degli studi di Siena con la votazione di 110 e Lode con una tesi dal titolo *Analisi di un modello non lineare di popolazioni strutturate per dimensione*.

Pubblicazioni:

Riviste:

- A. Lo Grasso, A. Fort, F. F. Mahdizadeh, A. Magnani, C. Mocenni. Generalized logistic model of bacterial growth. *Mathematical and Computer Modelling of Dynamical Systems*, 2023, 29(1), 169-185.
- A. Fort, E. Landi, A. Lo Grasso, M. Mugnaini, E. Panzardi, P. Vaccarella, V. Vignoli. QCM measurements in Newtonian liquids: problems and performance analysis. *IEEE Transactions on Instrumentation and Measurement*. Vol. 71, 2022.
- A. Fort, A. Lo Grasso, M. Mugnaini, E. Panzardi, V. Vignoli. QCM Measurements of RH with Nanostructured Carbon-Based Materials: Part 1—Theory and Model. *Chemosensors* 2022, 10, 315.
- A. Fort, A. Lo Grasso, M. Mugnaini, E. Panzardi, L. Parri, V. Vignoli, C. Viti, A. Al-Hamry, O. Kanoun. QCM Measurements of RH with Nanostructured Carbon-Based Materials: Part 2-Experimental Characterization. *Chemosensors* 2022, 10, 320.
- L. Parri, A. Lo Grasso, A. Fort, V. Vignoli, M. Mugnaini, C. Capasso, S. Del Prete, M. N. Romanelli, C. Supuran. Evaluating the efficiency of enzyme accelerated CO₂ capture: chemical kinetics modeling for interpreting measurement results. *Journal of Enzyme Inhibition and Medicinal Chemistry*, 2021, VOL. 36, NO. 1, 394-401.
- A. Fort, M. Mugnaini, E. Panzardi, A. Lo Grasso, A. Al Hamry, A. Adiraju, V. Vignoli and O. Kanoun. Modeling the Conductivity Response to NO₂ Gas of Films Based on MWCNT Networks. *Sensors* 2021, 21, 4723.

- E. Panzardi, A. Lo Grasso, V. Vignoli, M. Mugnaini, P. Lupetti, A. Fort. NO₂ Sensing with SWCNT Decorated by Nanoparticles in Temperature Pulsed Mode: Modeling and Characterization. *Sensors* 2020, 20(17), 4729.
- I. Cappelli, A. Fort, A. Lo Grasso, E. Panzardi, M. Mugnaini, V. Vignoli. RH Sensing by Means of TiO₂ Nanoparticles: A Comparison among Different Sensing Techniques Based on Modeling and Chemical/Physical Interpretation. *Chemosensors* 2020, 8(4), 89.
- A. Lo Grasso, S. Totaro. Analysis of a non-linear model of populations structured by size. *2020 Semigroup Forum* 101 (3), 734-750.

Conferenze:

- A. Fort, E. Landi, A. Lo Grasso, M. Mugnaini, E. Panzardi, V. Vignoli, F. F. Mahdizadeh, A. Magnani. Monitoring of the Viscoelastic behaviour of bacterial biofilms exploiting an accurate QCM system. *IEEE International Symposium on Medical Measurements and Applications (MeMeA)* 2022.
- A. Fort, A. Lo Grasso, E. Landi, M. Mugnaini, E. Panzardi, V. Vignoli, L. Talarico, M. Consumi, A. Magnani. A High Accuracy QCM based sensing system for in water ammonia monitoring. *XXI Conferenza Nazionale Sensori e Microsistemi (AISEM)* 2022).
- A. Fort, E. Panzardi, A. Lo Grasso, P. Vaccarella, V. Vignoli, M. Mugnaini. Impedance characterization of a QCM-based measurement system in liquid media. *2021 IEEE International Instrumentation and Measurement Technology Conference (IMTC)*.
- L. Parri, A. Fort, A. Lo Grasso, V. Vignoli, M. Mugnaini, C. Capasso, S. Del Prete, M. N. Romanelli, C. Supuran. A measurement system for the evaluation of efficiency of enzyme accelerated CO₂ capture systems based on modeling, *2020 IEEE International Instrumentation and Measurement Technology Conference (IMTC)*.